

Processing Relationships Configuration System 10

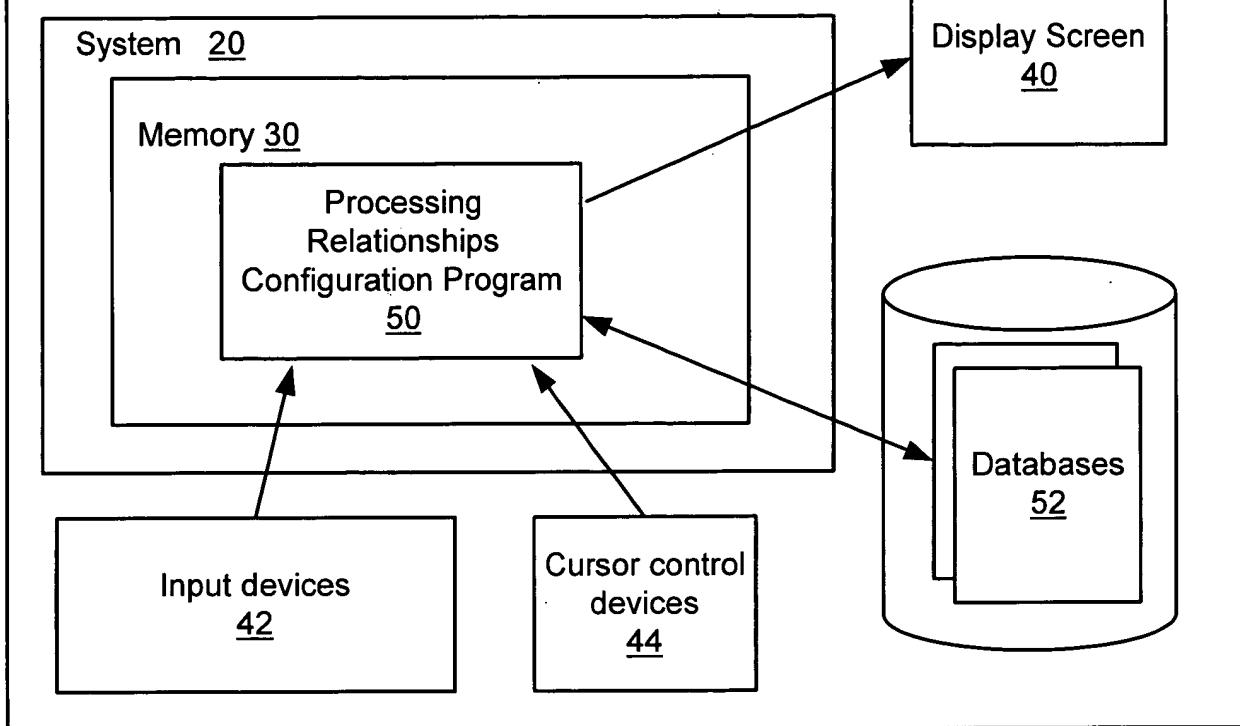


FIG. A-1a

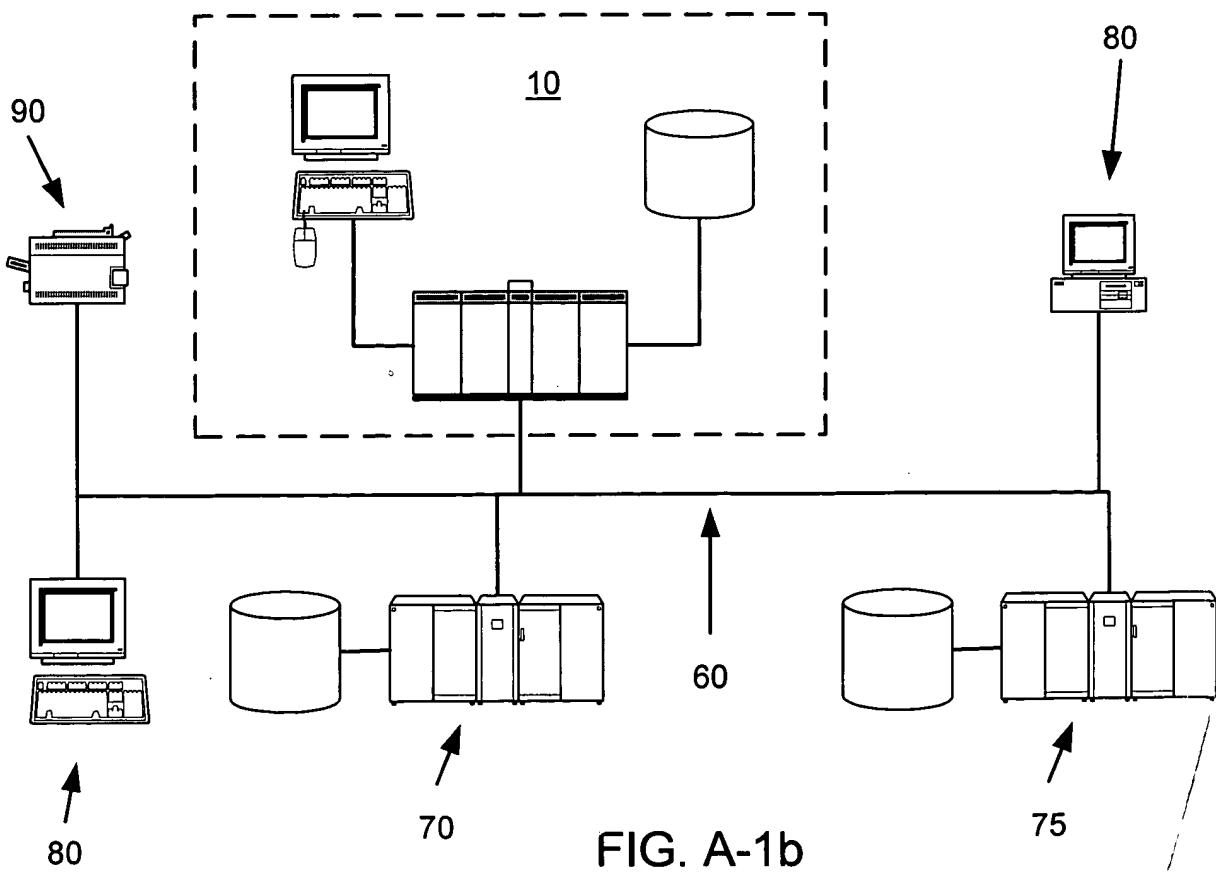
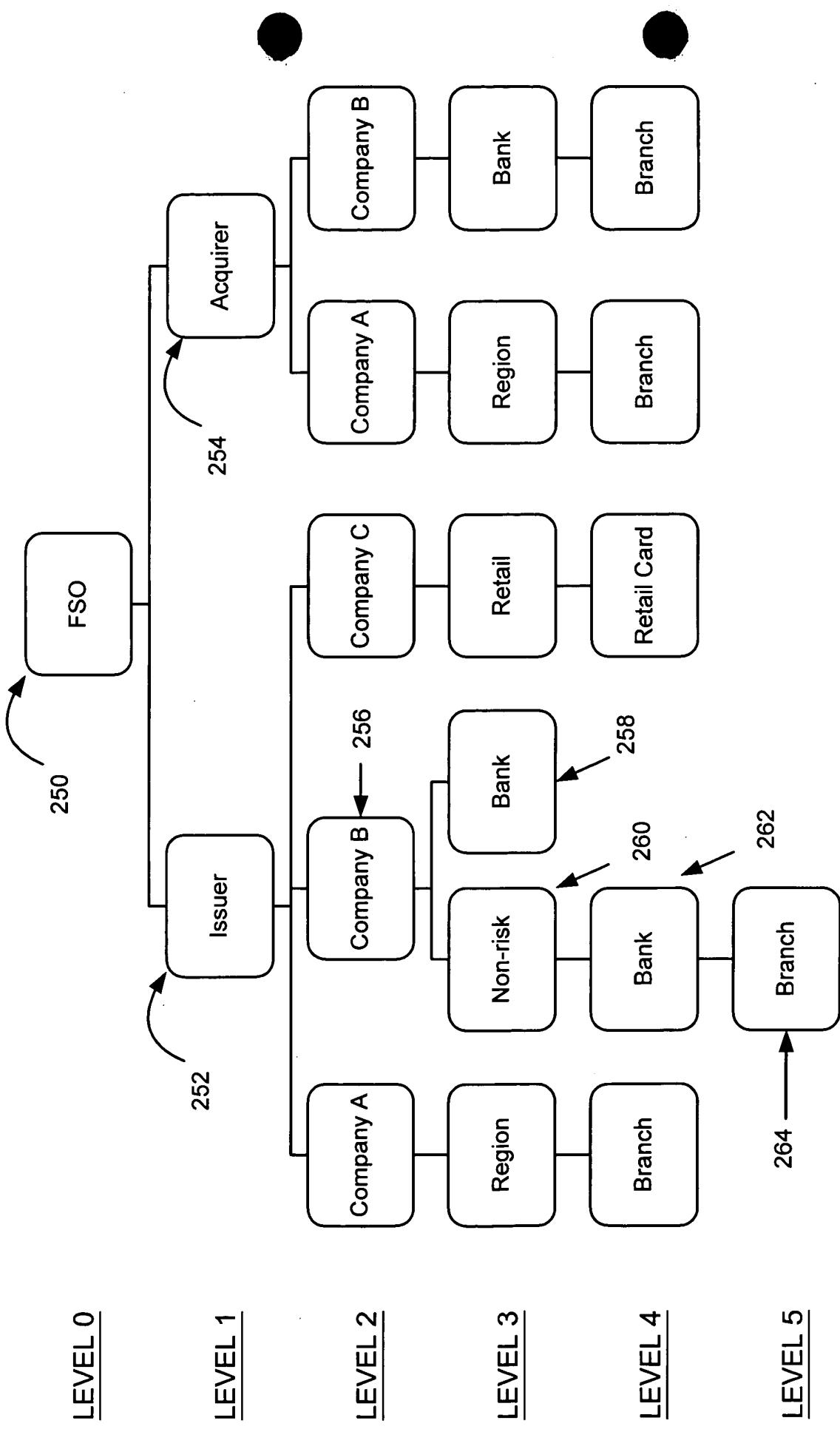


FIG. A-1b



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<u>SEQ</u>	<u>ELEM-ID CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID
2	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID

FIG. A-3

<u>SEQ</u>	<u>ELEM-ID CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID
2	COMPANYA	2	D1001	COA	COMPANY A
3	COMPANYB	2	D1011	COB	COMPANY B
4	COMPANYC	2	D1031	COC	COMPANY C
5	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID

FIG. A-4

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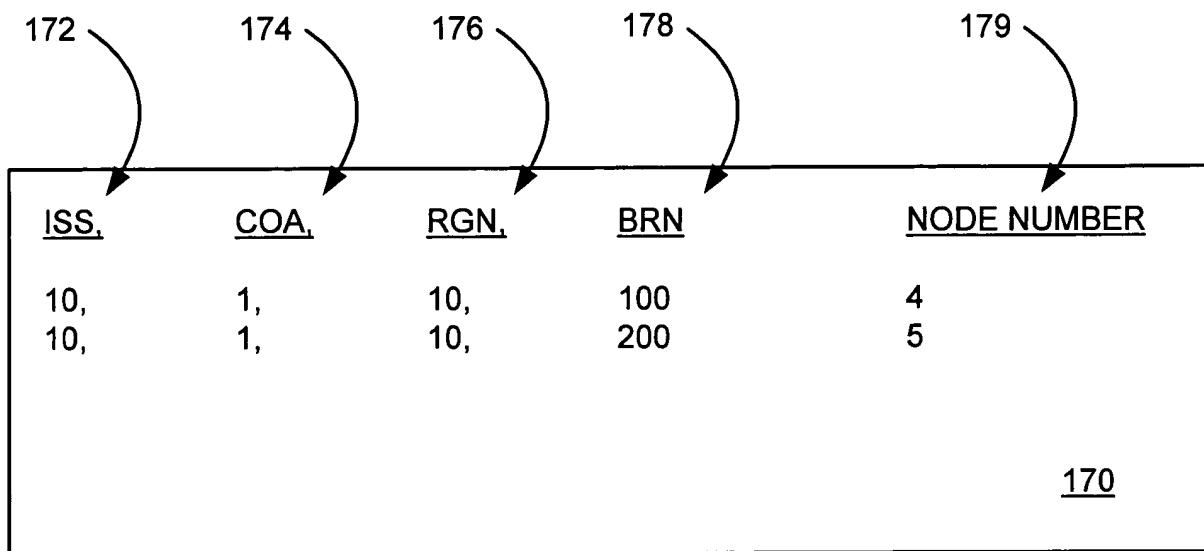
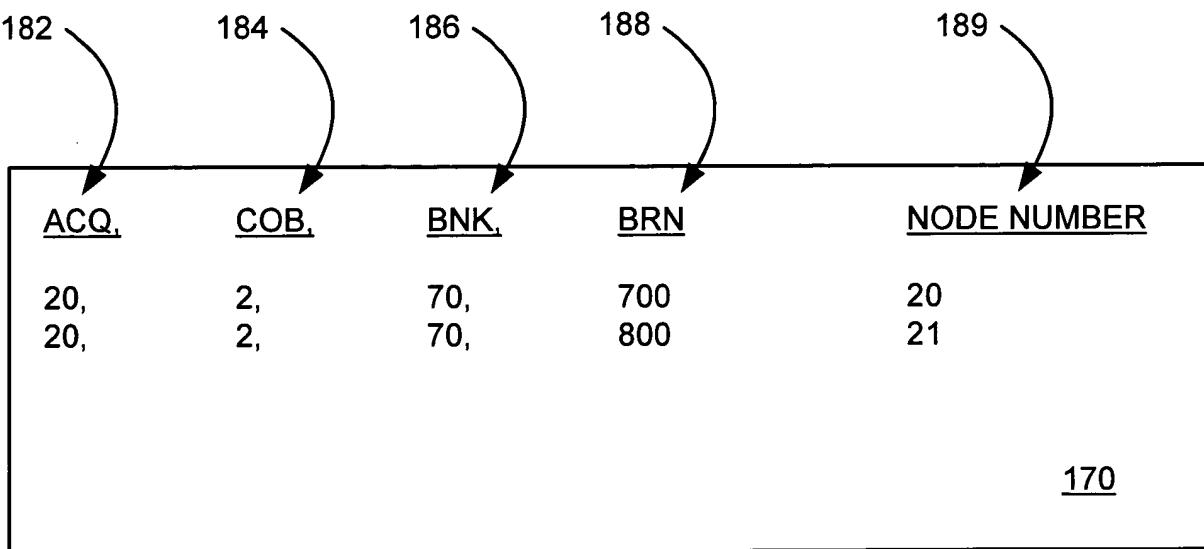
<u>SEQ</u>	<u>ELEM-ID CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID
2	COMPANYA	2	D1001	COA	COMPANY A
3	COMPANYB	2	D1011	COB	COMPANY B
4	NONRISK	3	D1012	NON	NON-RISK ACCOUNTS
5	BANK	3	D1021	BNK	BANK
6	COMPANYC	2	D1031	COC	COMPANY C
7	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID

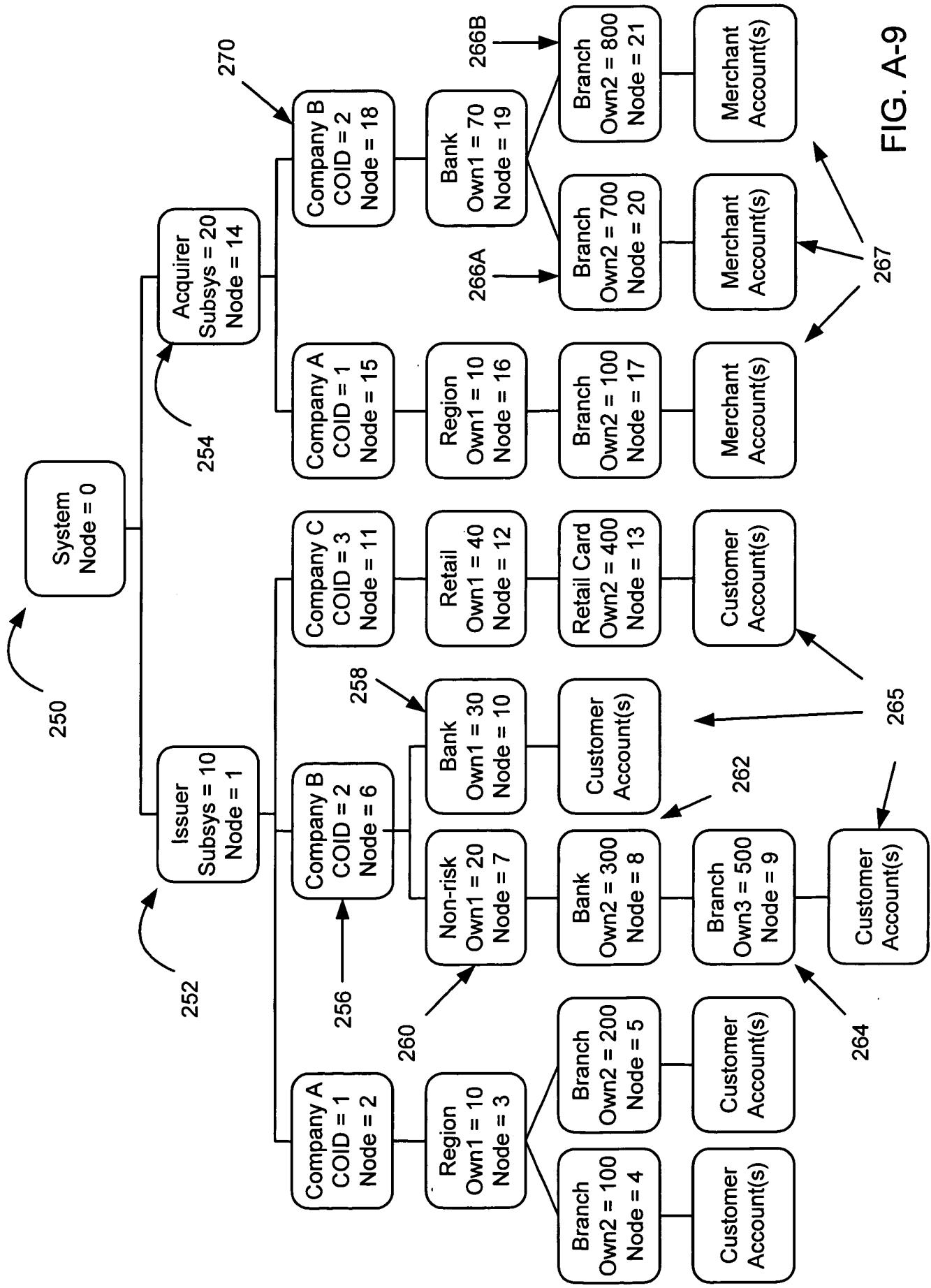
FIG. A-
5

The diagram illustrates a sequence of 19 elements (ELEM-ID) mapped to constants (CONSTANT) and levels (LEVEL). The sequence is as follows:

<u>SEQ</u>	<u>ELEM-ID</u>	<u>CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID	
2	COMPANYA	2	D1001	COA	COMPANY A	
3	REGION	3	D1002	RGN	REGIONAL OFFICE	
4	BRANCH	4	D1003	BRN	BRANCH OFFICE	
5	COMPANYB	2	D1011	COB	COMPANY B	
6	NONRISK	3	D1012	NON	NON-RISK ACCOUNTS	
7	BANK	4	D1013	BNK	NON-RISK BANK	
8	BRANCH	5	D1014	BRN	BANK BRANCH	
9	BANK	3	D1021	BNK	BANK	
10	COMPANYC	2	D1031	COC	COMPANY C	
11	RETAIL	3	D1032	RET	RETAIL STORE	
12	RETAILCARD	4	D1033	RTC	PRIVATE-LABEL CREDIT CARD	
13	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID	
14	COMPANYA	2	D2001	COA	COMPANY A	
15	REGION	3	D2002	RGN	REGIONAL OFFICE	
16	BRANCH	4	D2003	BRN	BRANCH OFFICE	
17	COMPANYB	2	D2011	COB	COMPANY B	
18	BANK	3	D2012	BNK	BANK	
19	BRANCH	4	D2013	BRN	BANK BRANCH	

FIG. A-

FIG. A-
7FIG. A-
8



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00200000000000000000000000000000

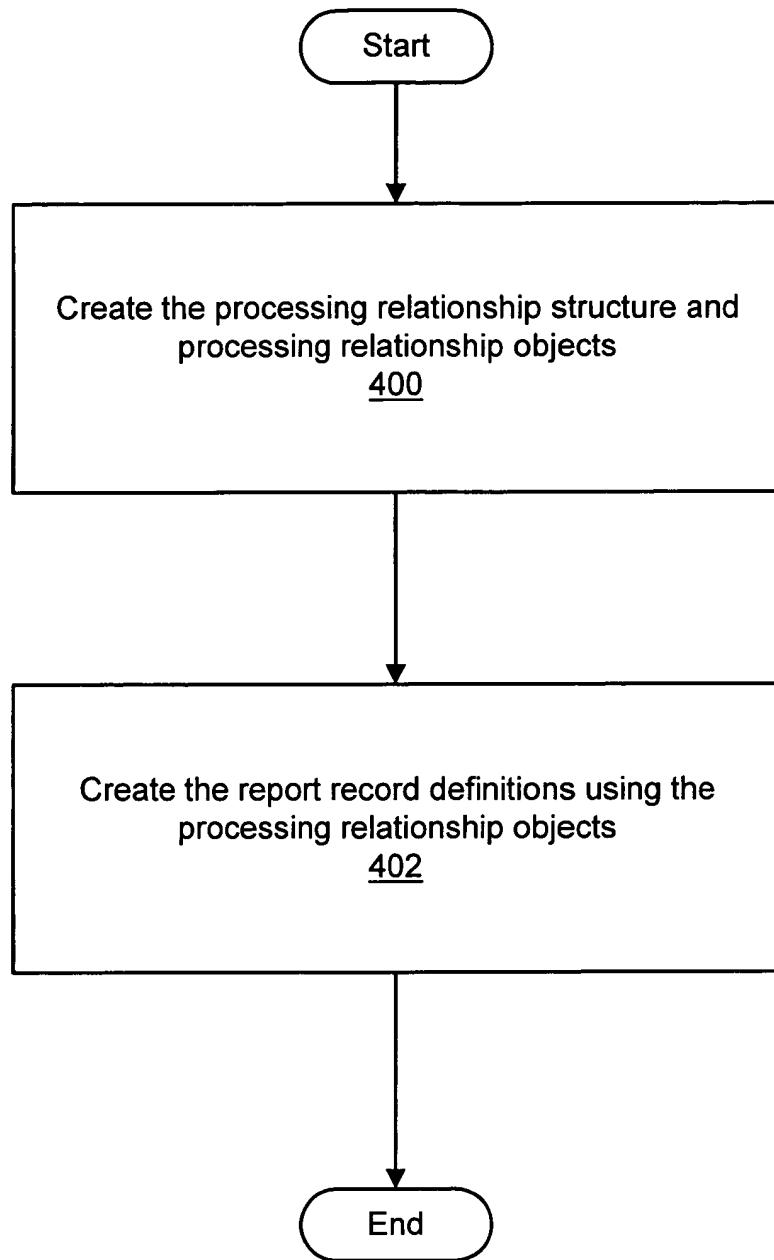
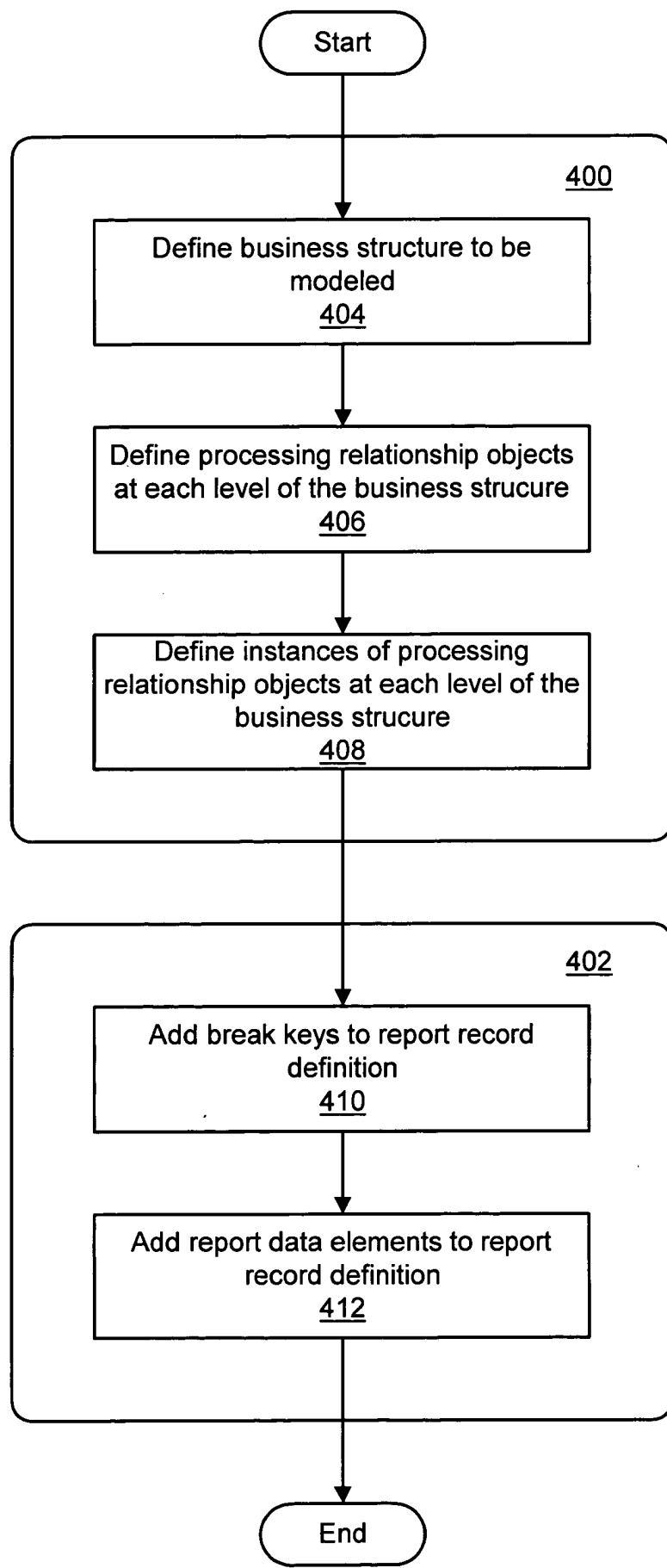
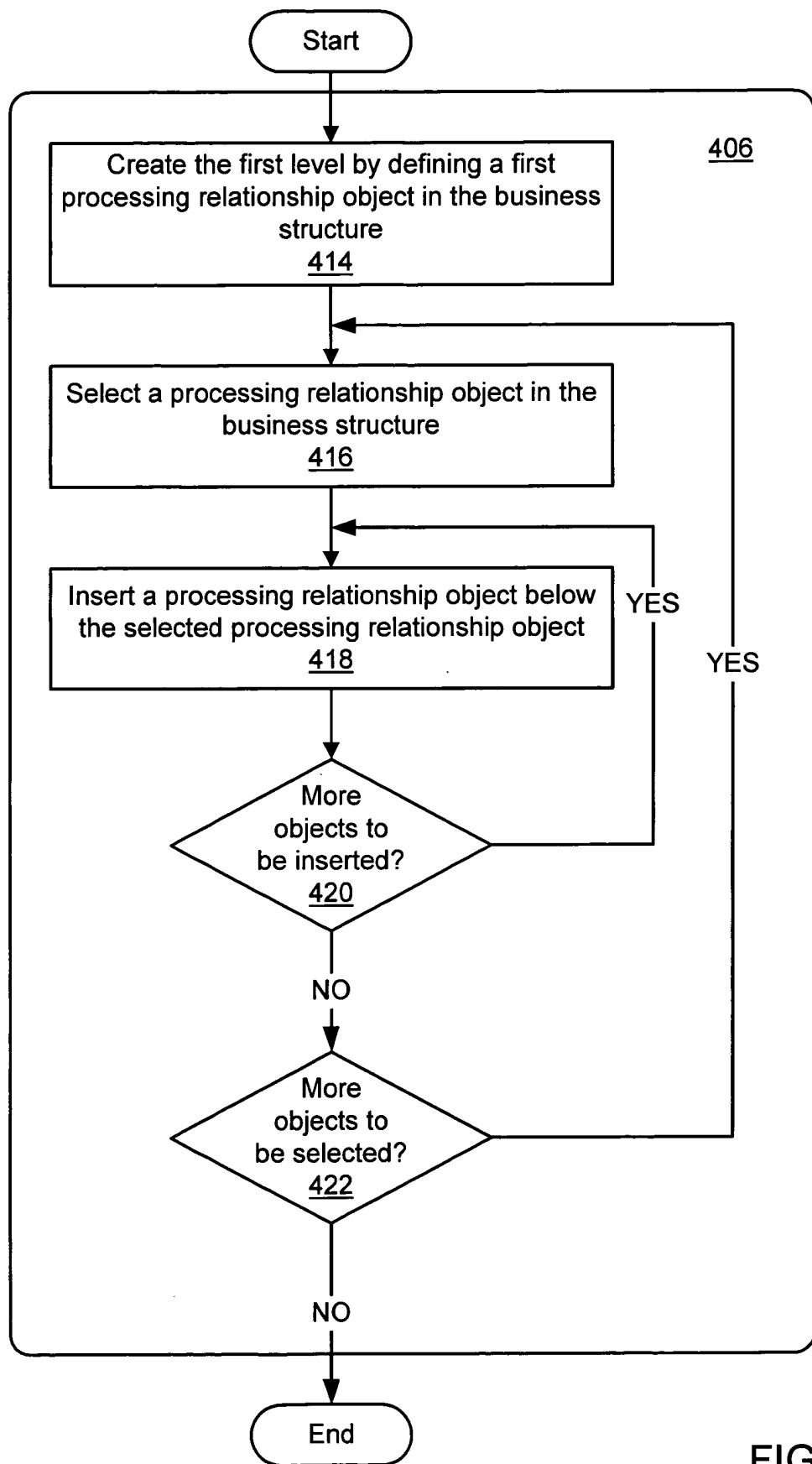


FIG. A-
10a

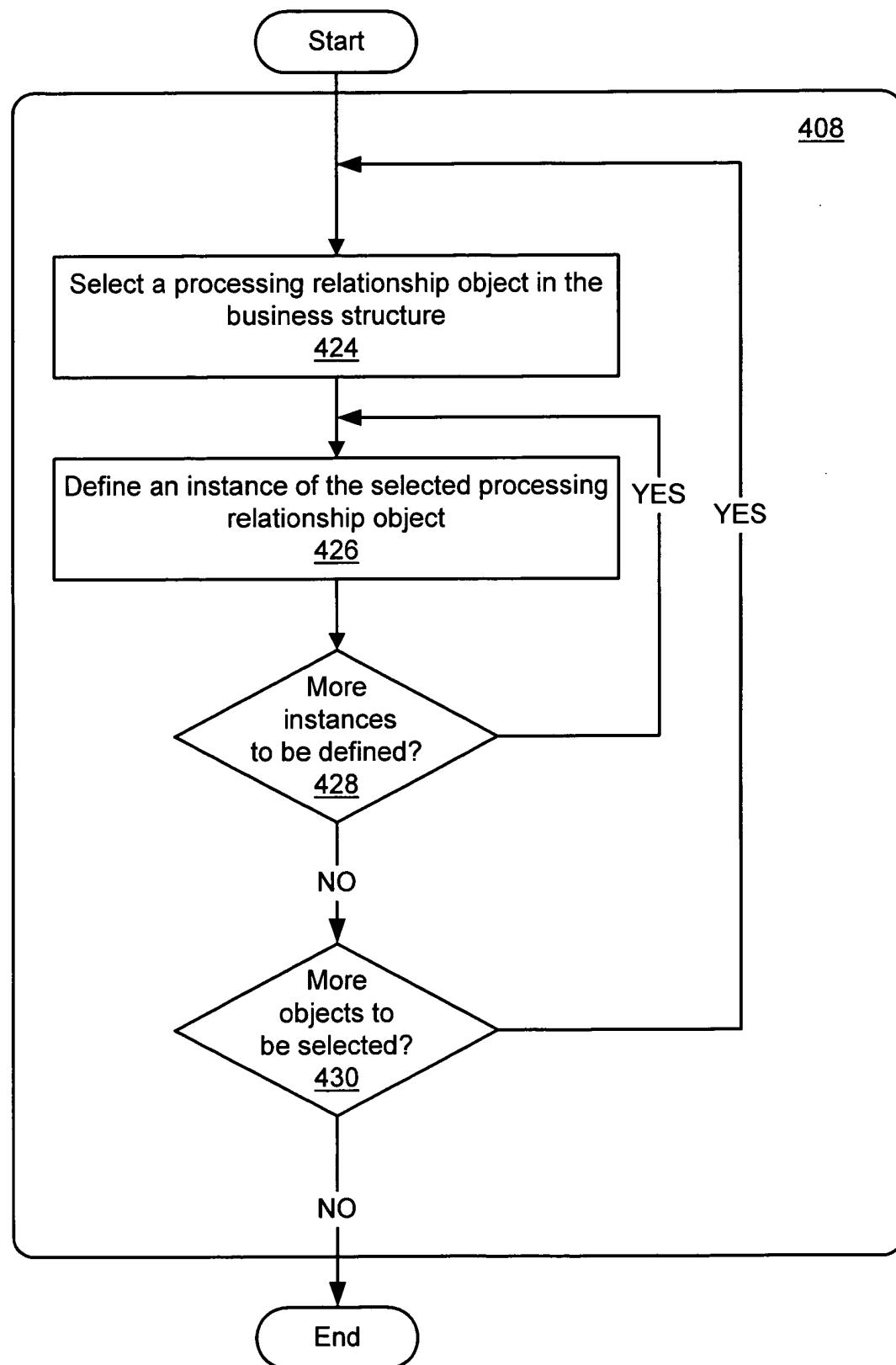
00000000000000000000000000000000

FIG. A-
10b

00000000000000000000000000000000

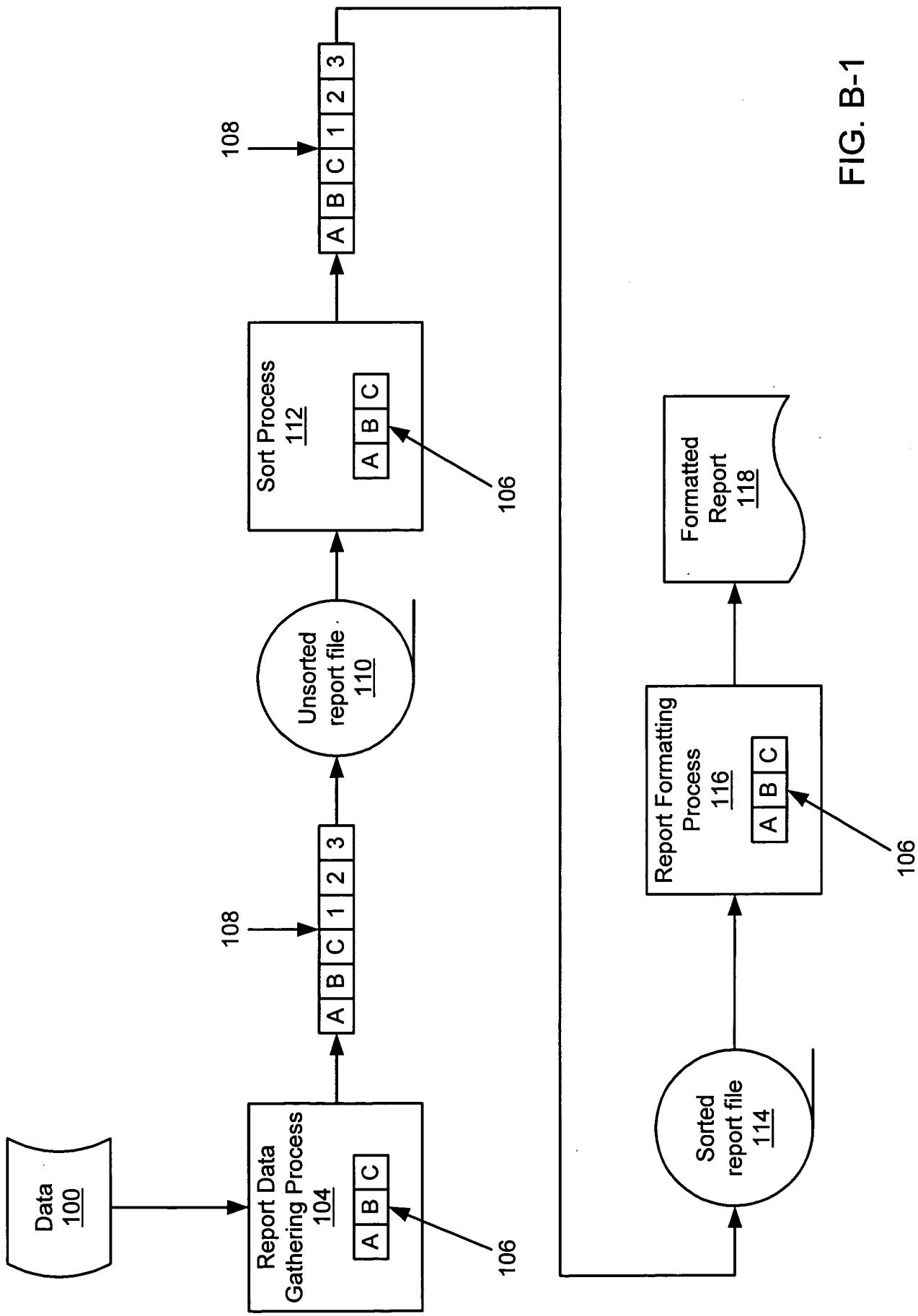
FIG. A-
10c

00000000000000000000000000000000

FIG. A-
10d

12	10,1,10,100
2	10,1,10,200
3	10,1,20,100
9	10,2,10,300
6	20,1,10,100

FIG. A-11



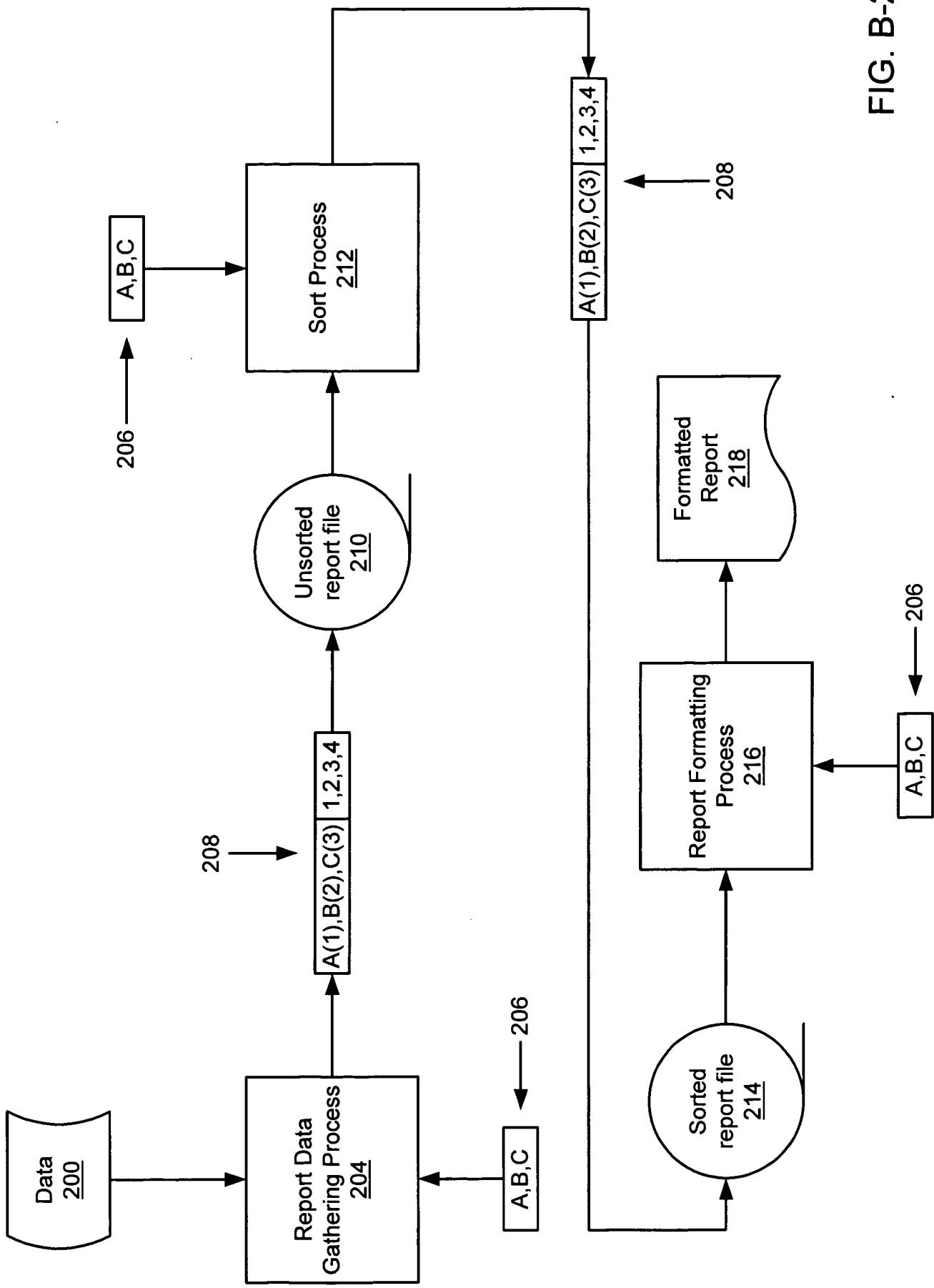


FIG. B-2

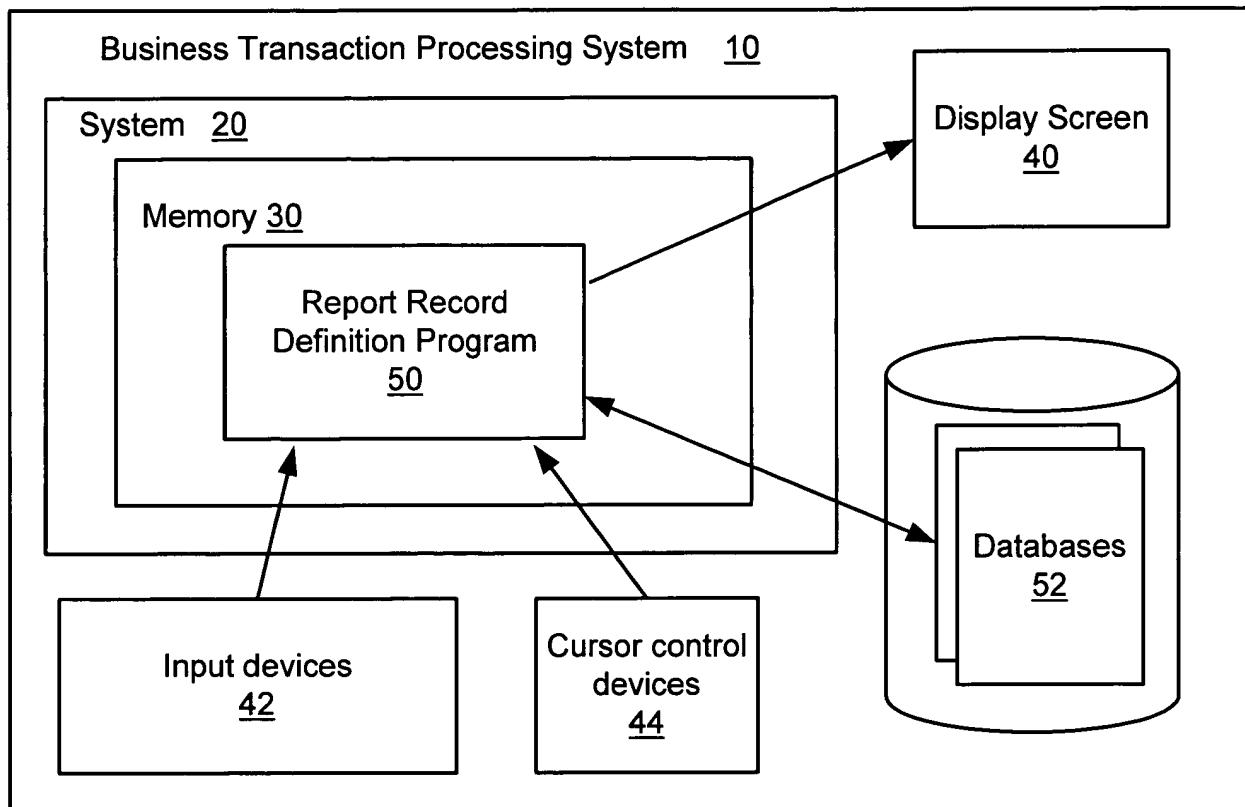


FIG. B-3a

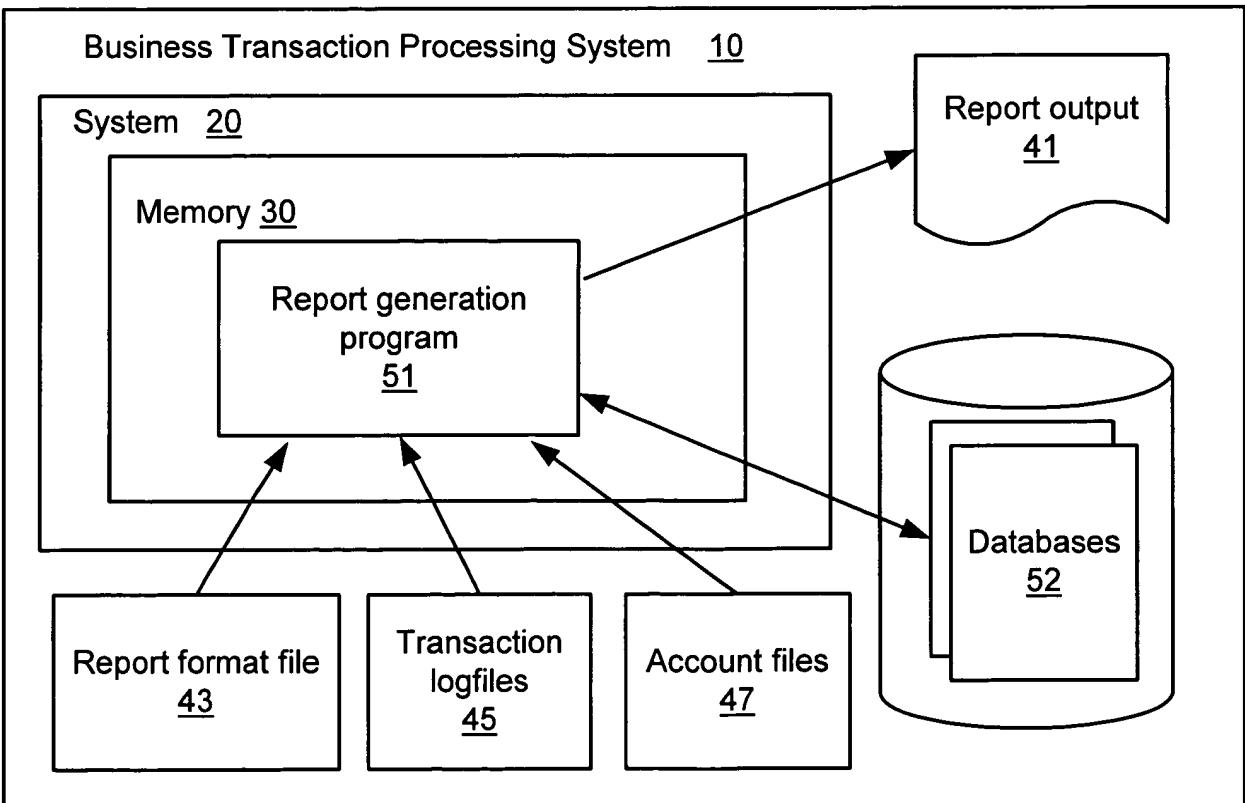
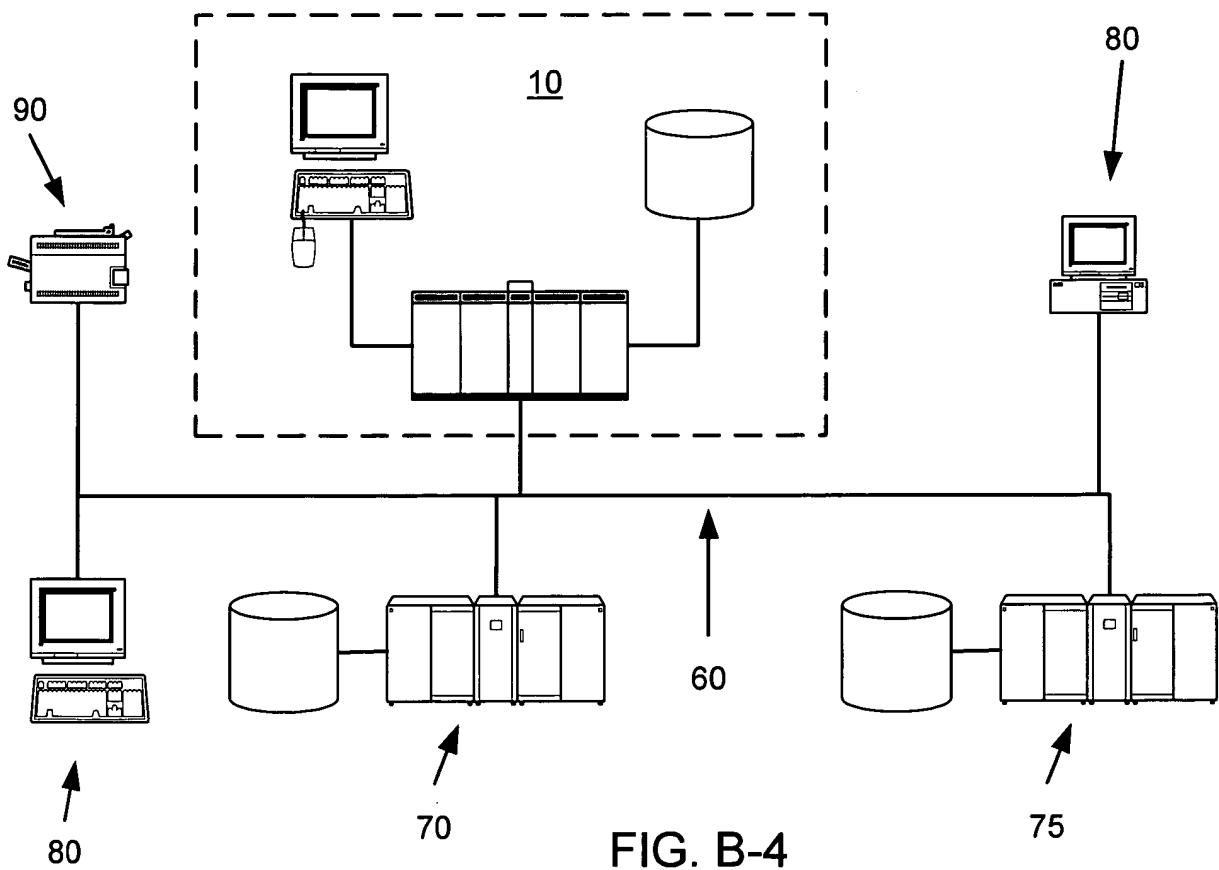


FIG. B-3b

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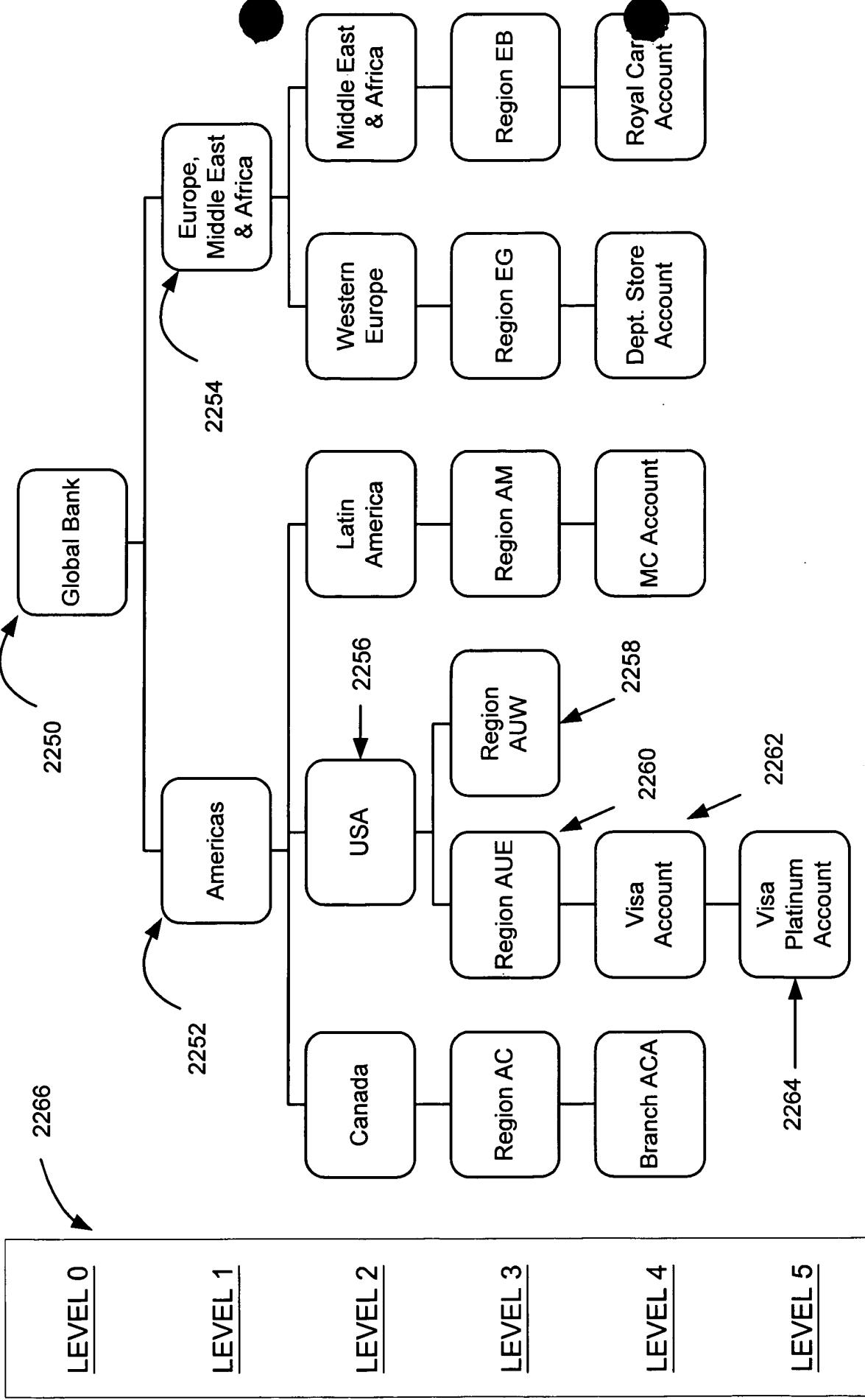
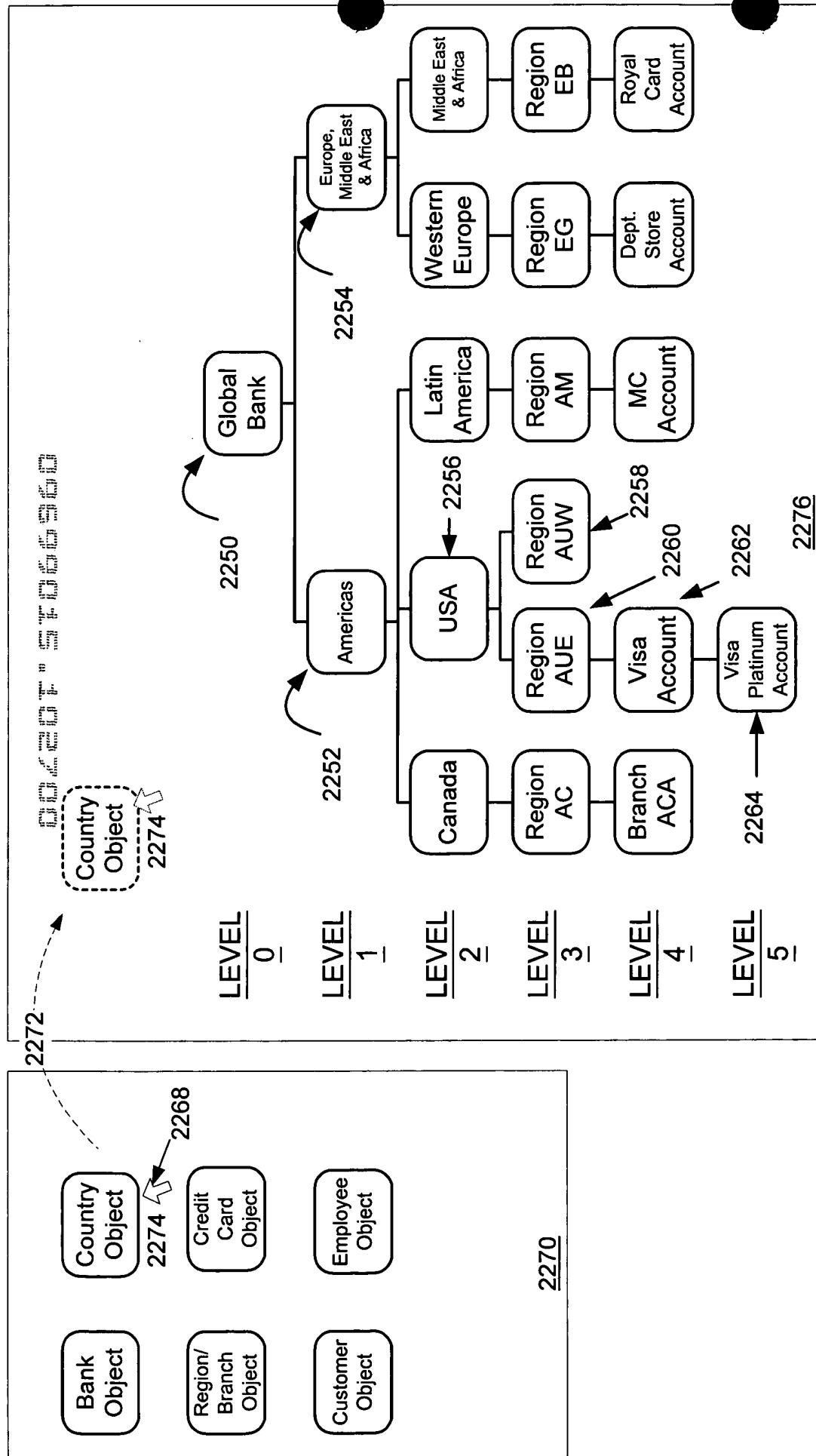


FIG. B-5a

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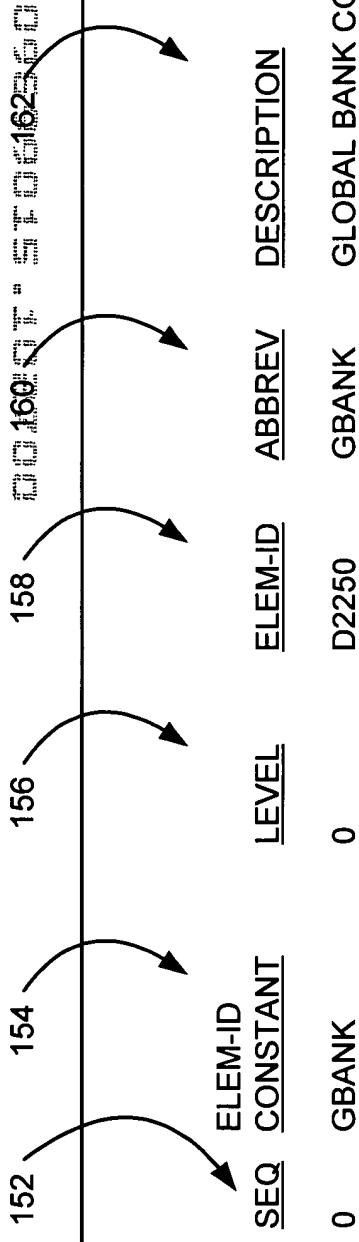


FIG. B-5C

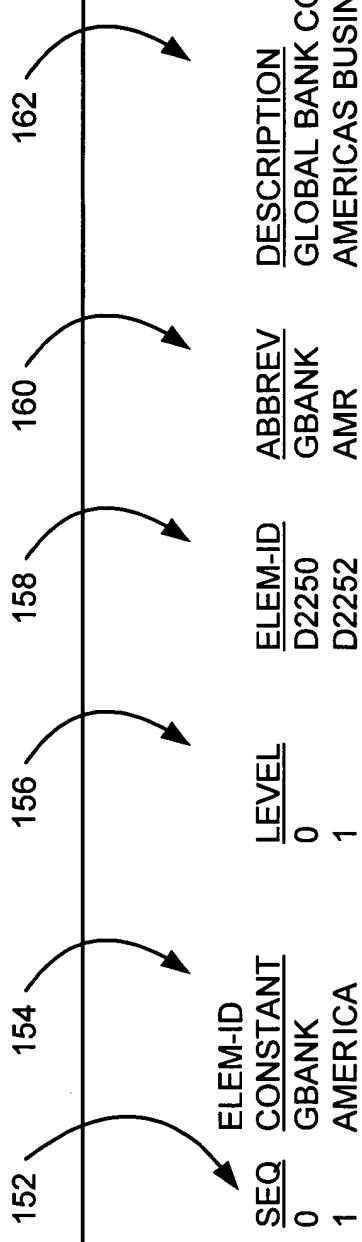


FIG. B-5C

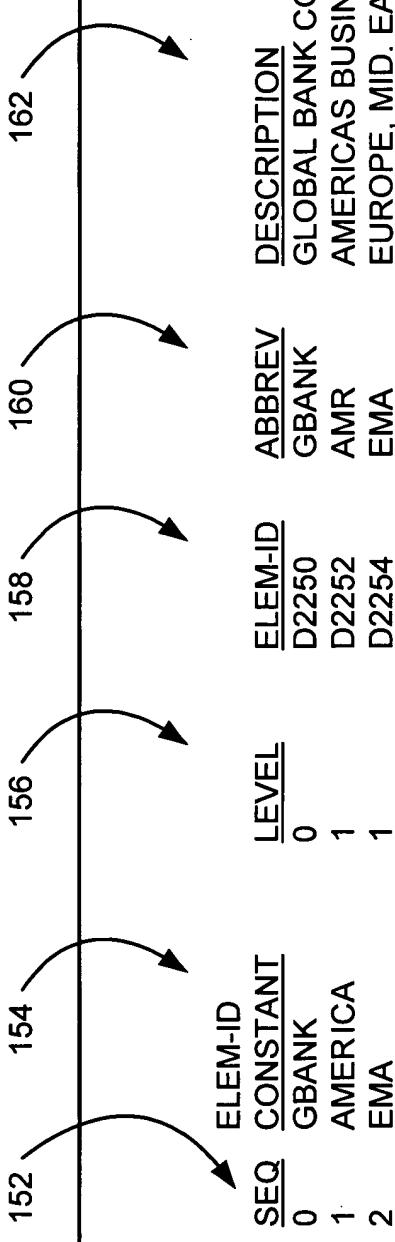
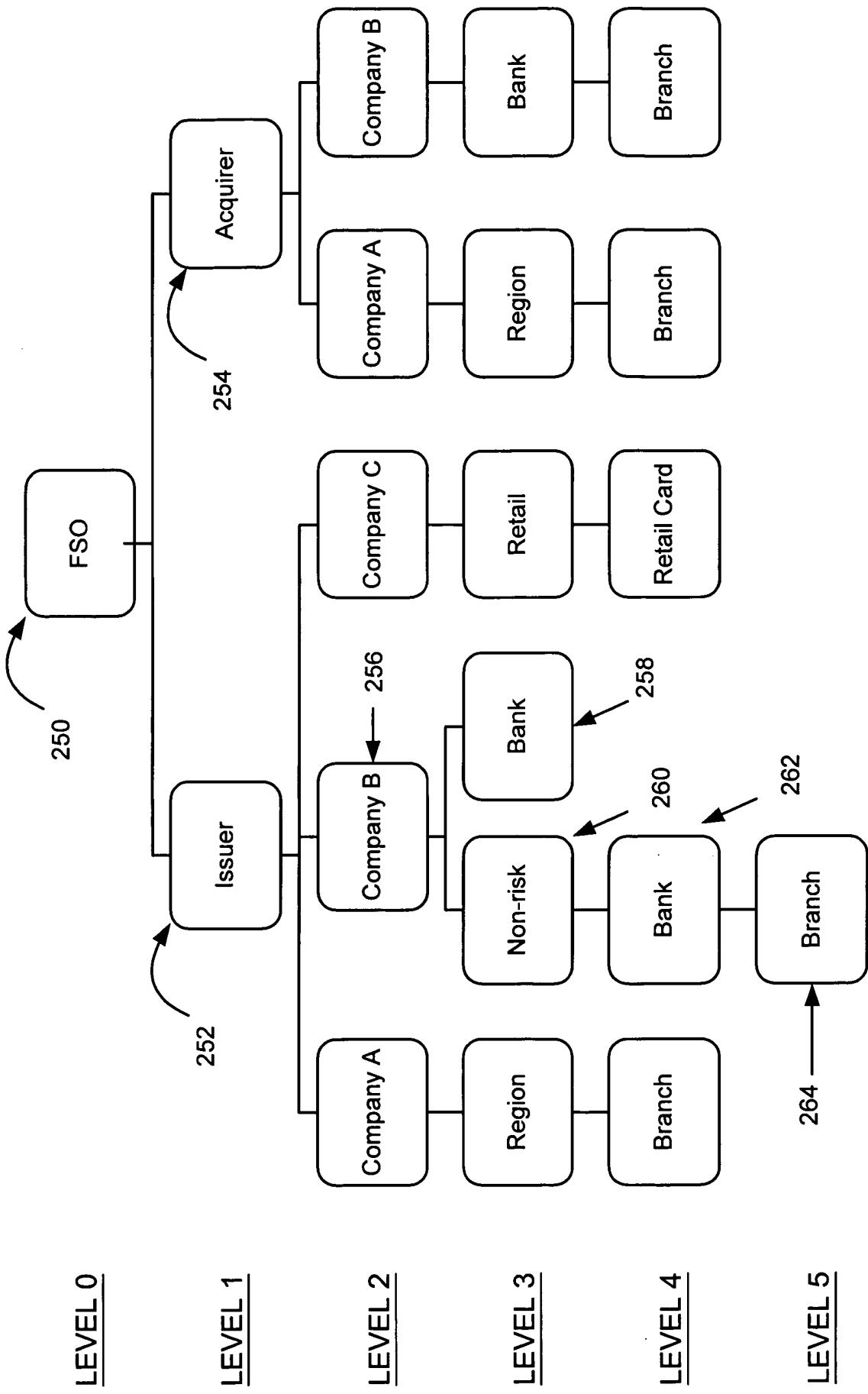


FIG. B-

FIG. B-5e

FIG.B-5f



The diagram illustrates a sequence of 19 rows in a table, represented by a horizontal line with arrows indicating a circular flow from row 152 back to 152. The rows are numbered 1 through 19 on the left, and each row contains five columns: SEQ, ELEM-ID CONSTANT, LEVEL, ELEM-ID, ABBREV, and DESCRIPTION.

<u>SEQ</u>	<u>ELEM-ID CONSTANT</u>	<u>LEVEL</u>	<u>ELEM-ID</u>	<u>ABBREV</u>	<u>DESCRIPTION</u>
1	ISSUER	1	D1000	ISS	ISSUER SUBSYS ID
2	COMPANYA	2	D1001	COA	COMPANY A
3	REGION	3	D1002	RGN	REGIONAL OFFICE
4	BRANCH	4	D1003	BRN	BRANCH OFFICE
5	COMPANYB	2	D1011	COB	COMPANY B
6	NONRISK	3	D1012	NON	NON-RISK ACCOUNTS
7	BANK	4	D1013	BNK	NON-RISK BANK
8	BRANCH	5	D1014	BRN	BANK BRANCH
9	BANK	3	D1021	BNK	BANK
10	COMPANYC	2	D1031	COC	COMPANY C
11	RETAIL	3	D1032	RET	RETAIL STORE
12	RETAILCARD	4	D1033	RTC	PRIVATE-LABEL CREDIT CARD
13	ACQUIRER	1	D2000	ACQ	ACQUIRER SUBSYS ID
14	COMPANYA	2	D2001	COA	COMPANY A
15	REGION	3	D2002	RGN	REGIONAL OFFICE
16	BRANCH	4	D2003	BRN	BRANCH OFFICE
17	COMPANYB	2	D2011	COB	COMPANY B
18	BANK	3	D2012	BNK	BANK
19	BRANCH	4	D2013	BRN	BANK BRANCH

FIG. B-6

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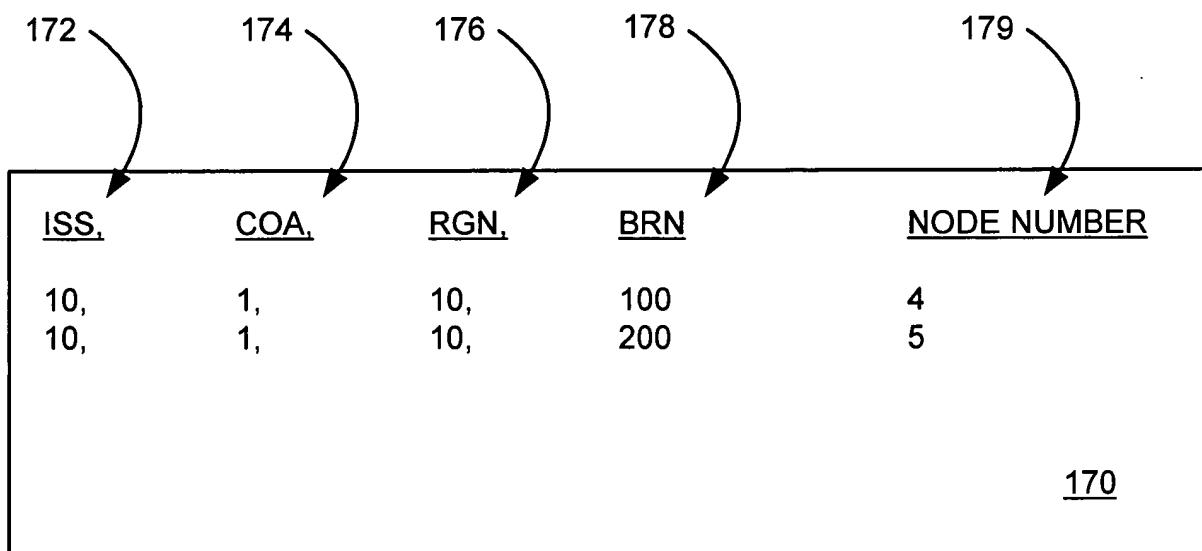
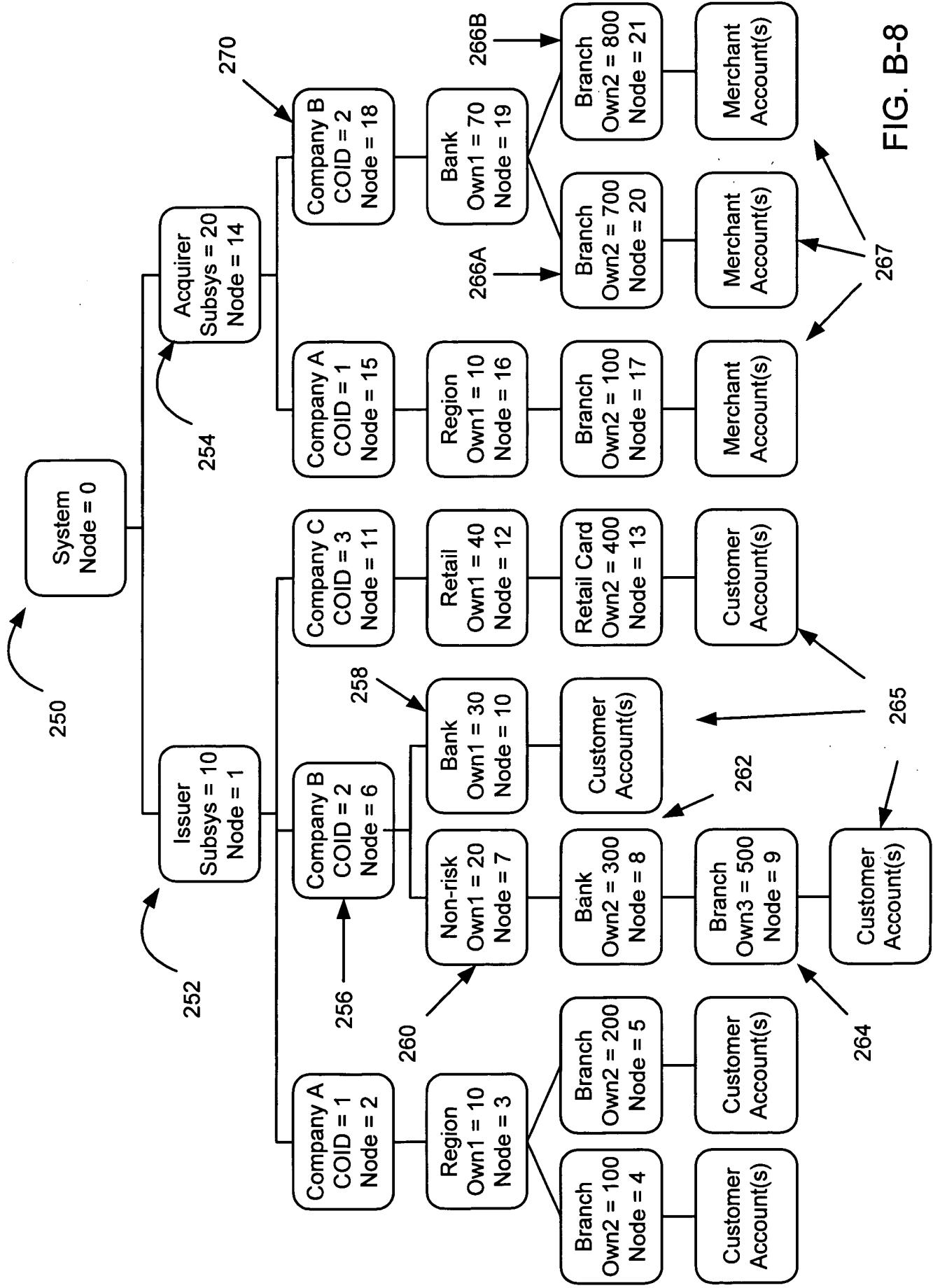


FIG. B-7

FIG. B-8



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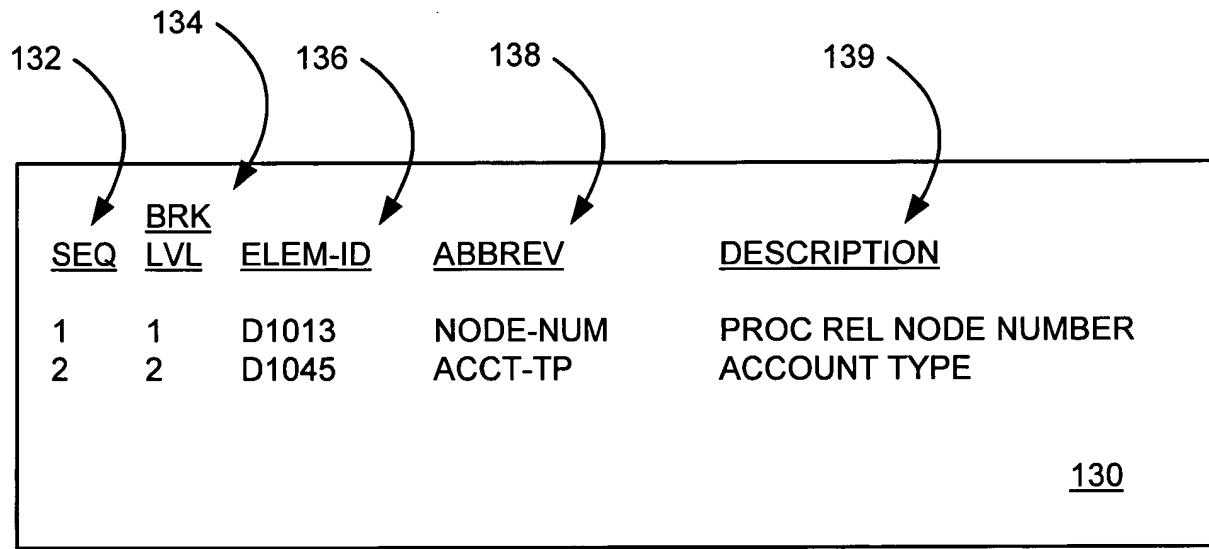


FIG. B-9

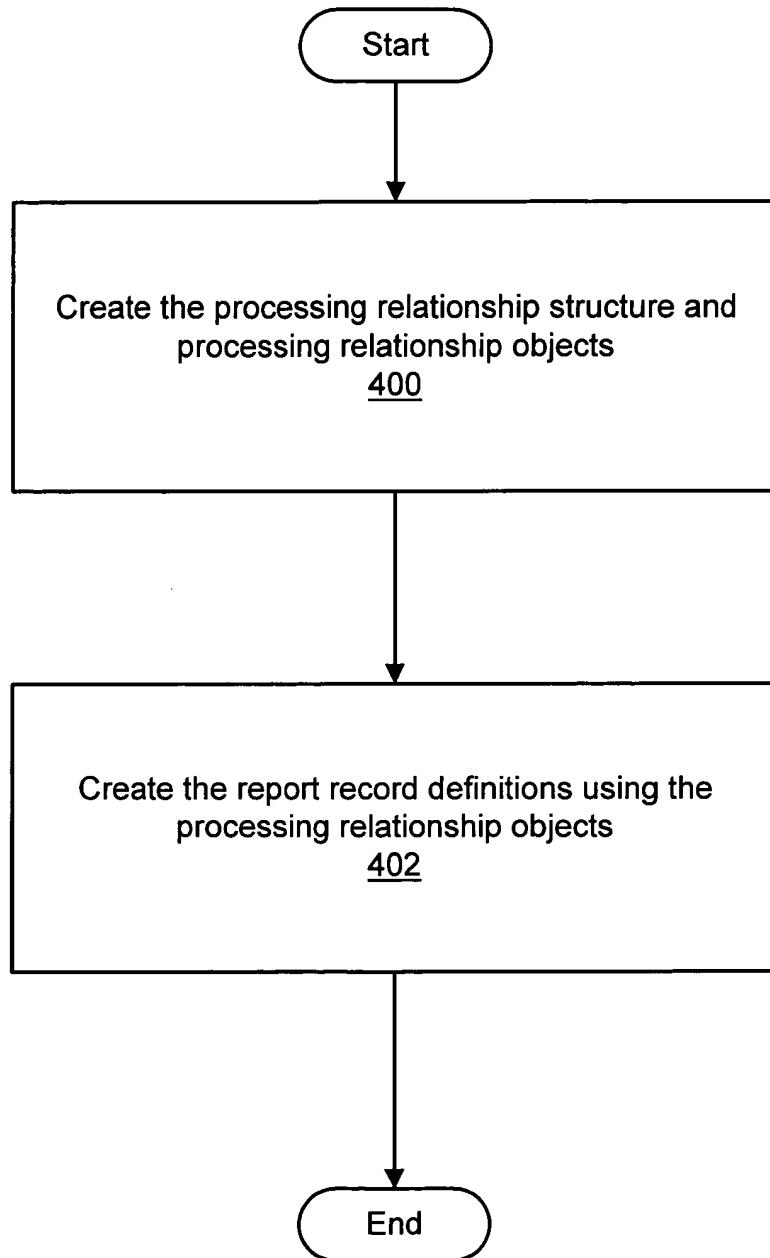


FIG. B-10a

00000000000000000000000000000000

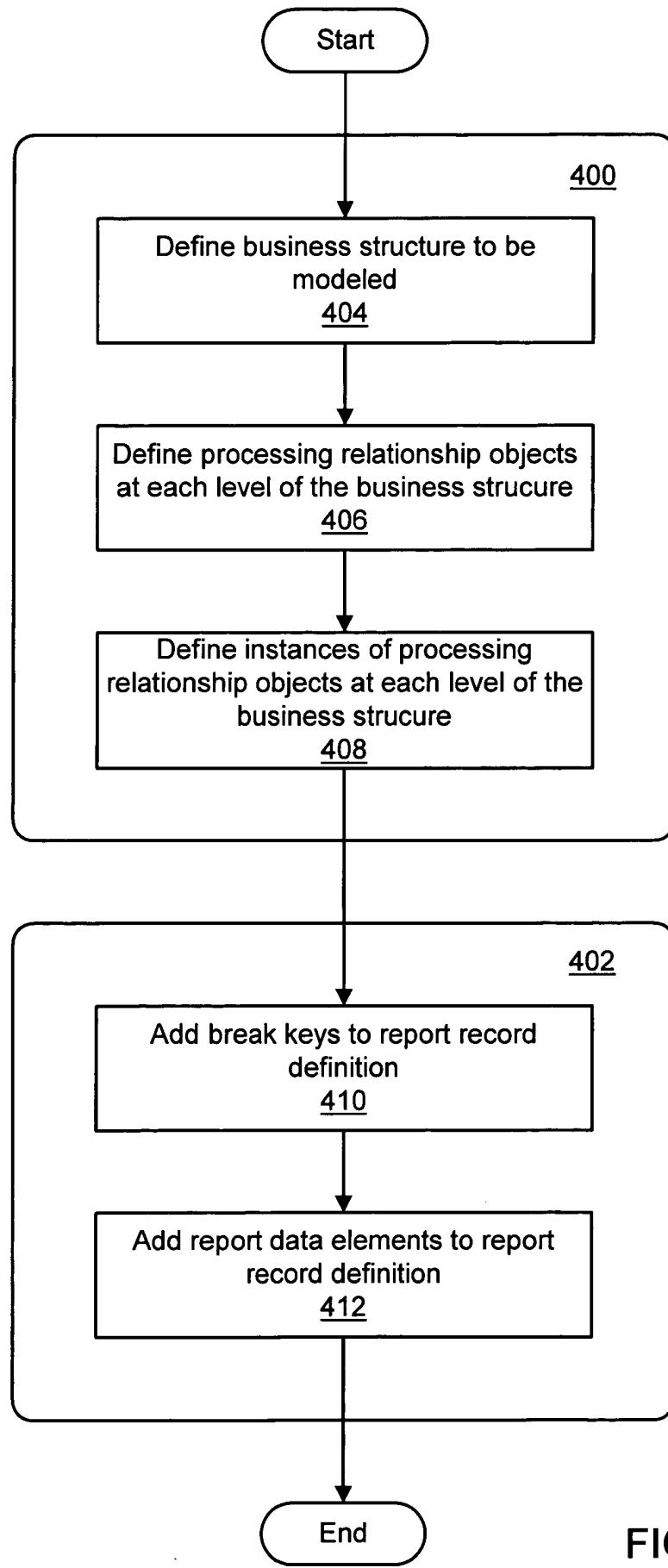


FIG. B-10b

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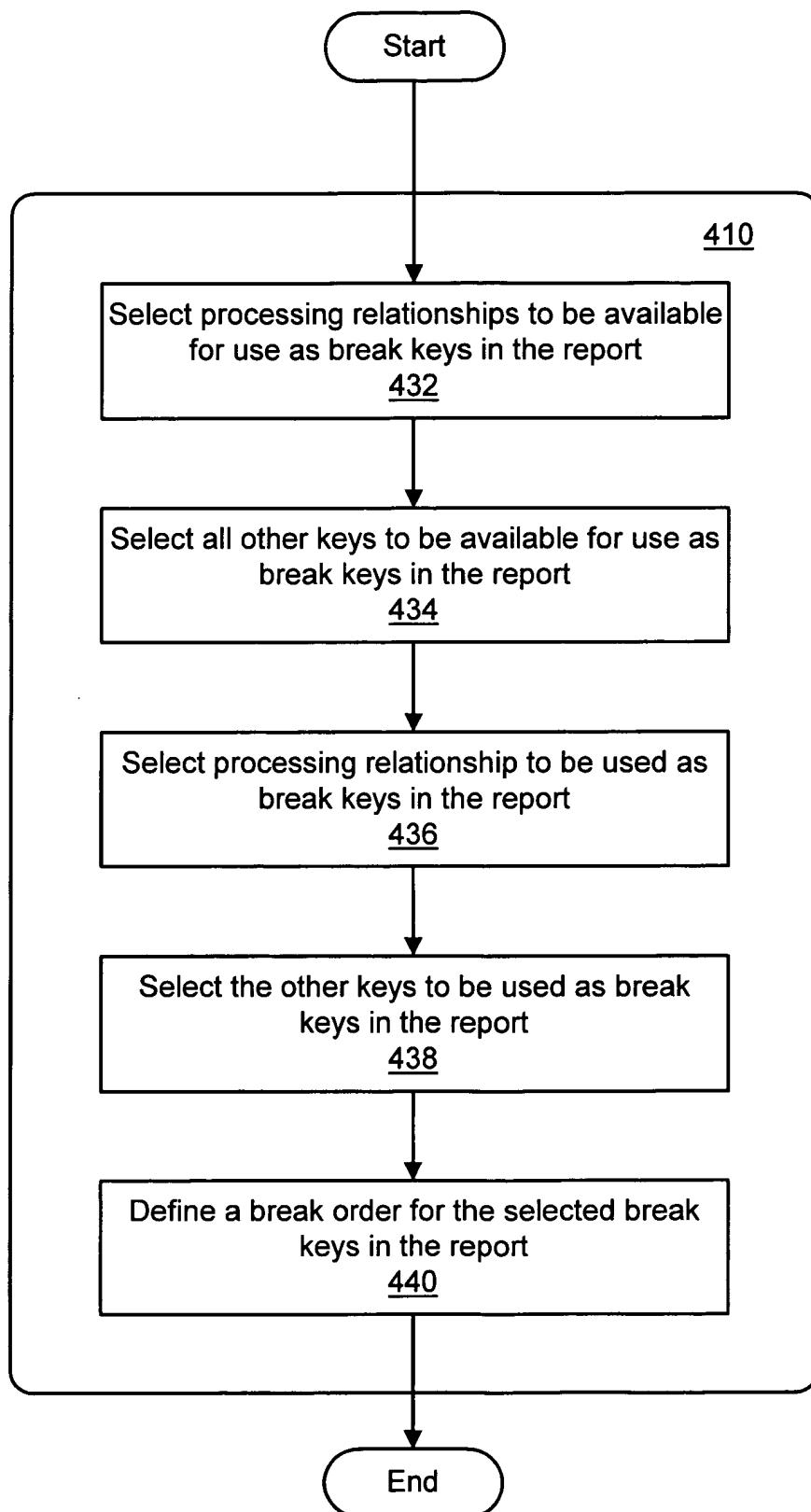


FIG. B-10c

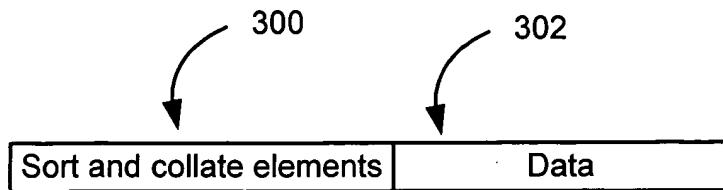


FIG. B-11a

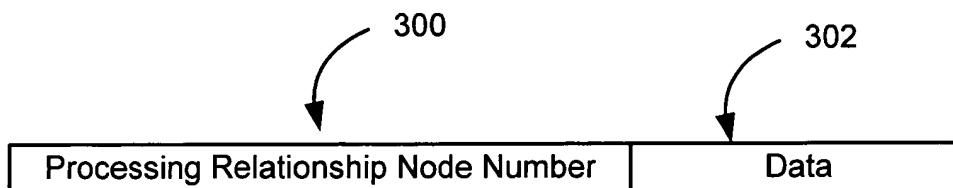


FIG. B-11b

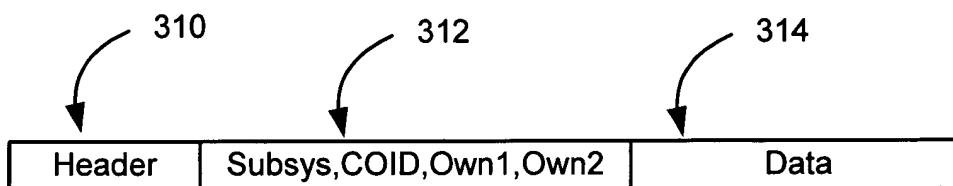


FIG. B-11c

Header	10,1,10,200	Data
Header	10,1,10,100	Data
Header	10,1,10,100	Data
Header	10,1,20,100	Data
Header	10,2,10,300	Data
Header	10,1,10,200	Data
Header	20,1,10,100	Data
Header	10,1,10,100	Data

FIG. B-11d

Header	10,1,10,100	Data
Header	10,1,10,100	Data
Header	10,1,10,100	Data
Header	10,1,10,200	Data
Header	10,1,10,200	Data
Header	10,1,10,200	Data
Header	10,2,10,300	Data
Header	20,1,10,100	Data

FIG. B-11e

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00000000000000000000000000000000

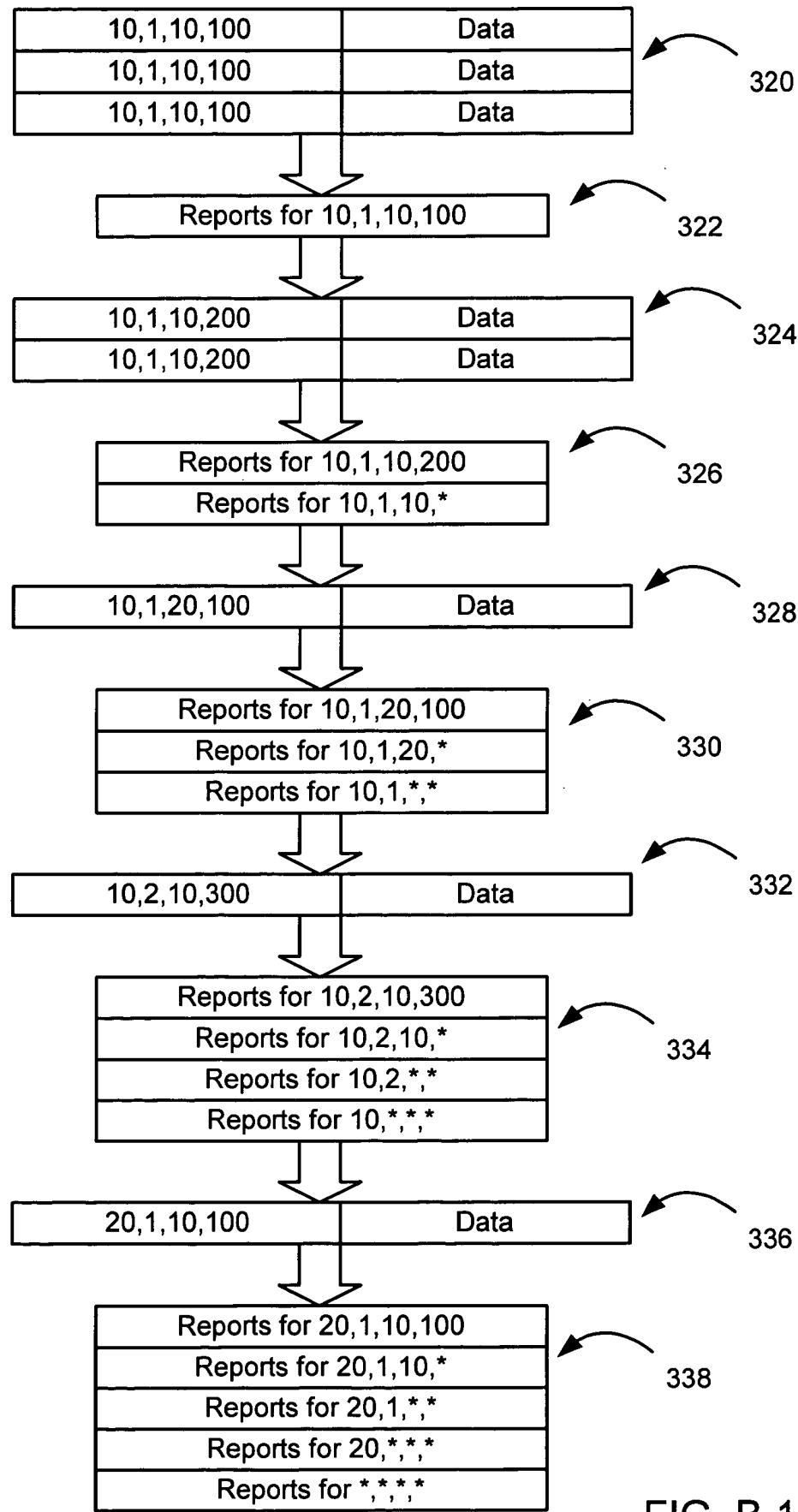
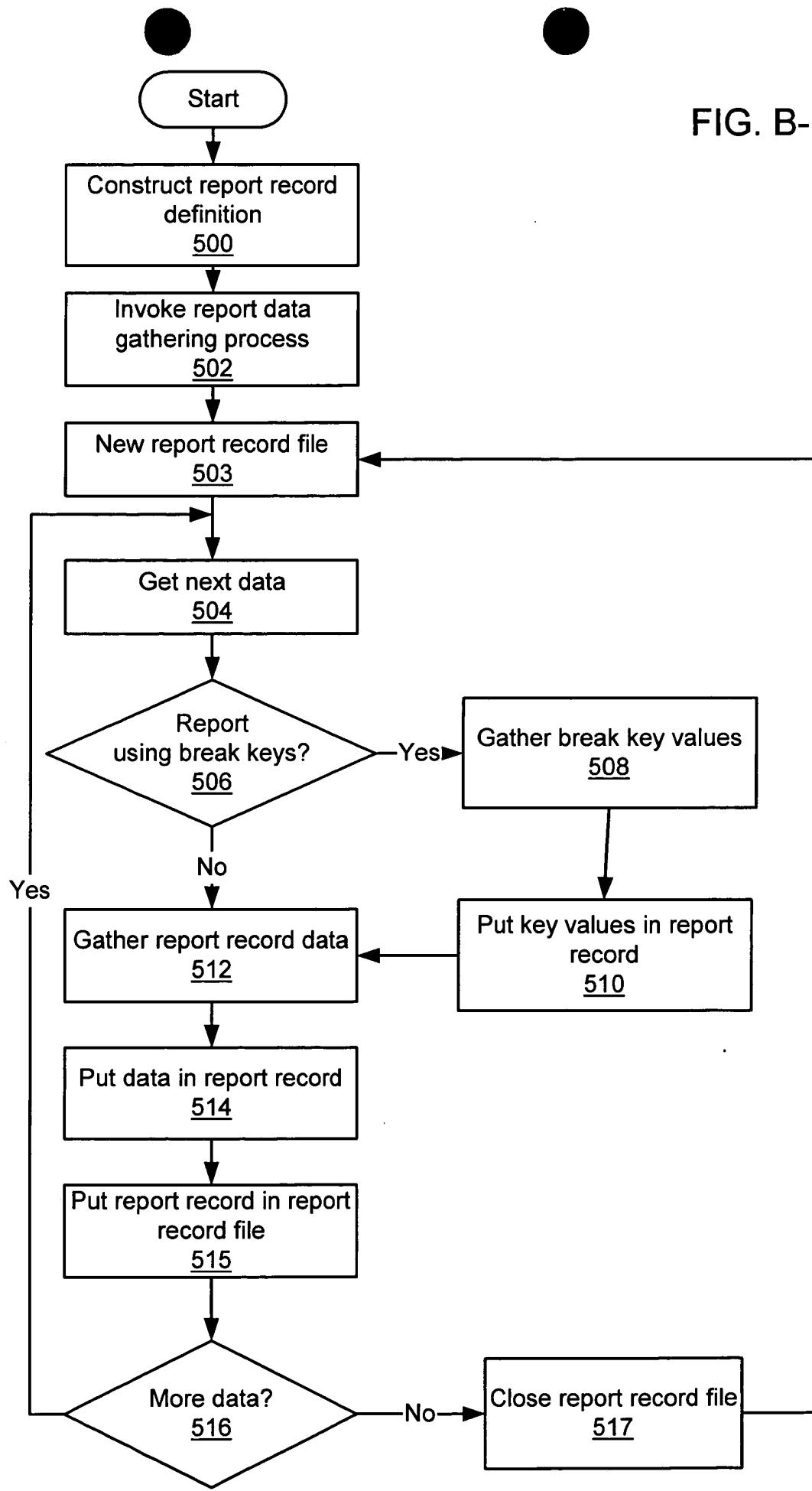


FIG. B-12

FIG. B-13a



00000000000000000000000000000000

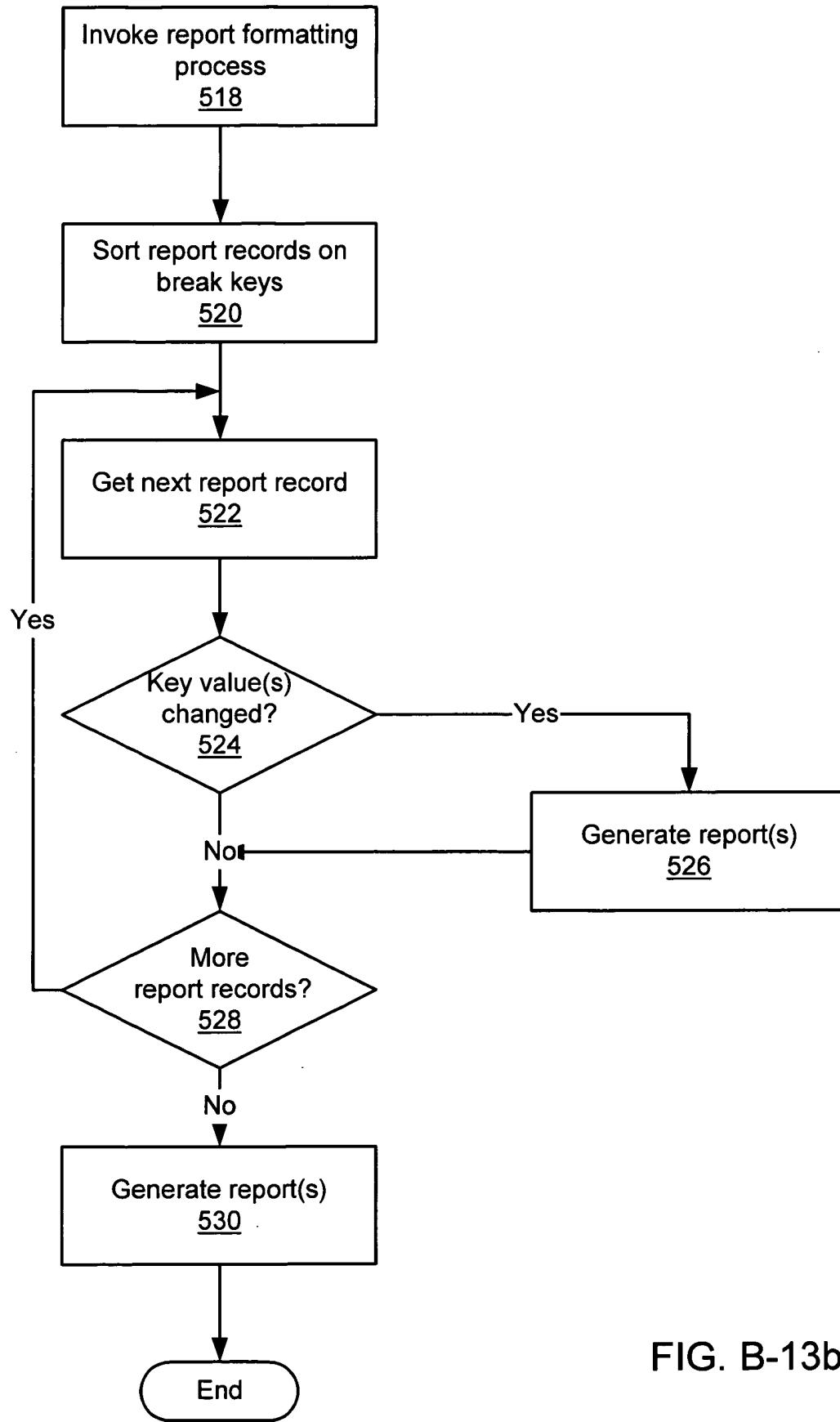
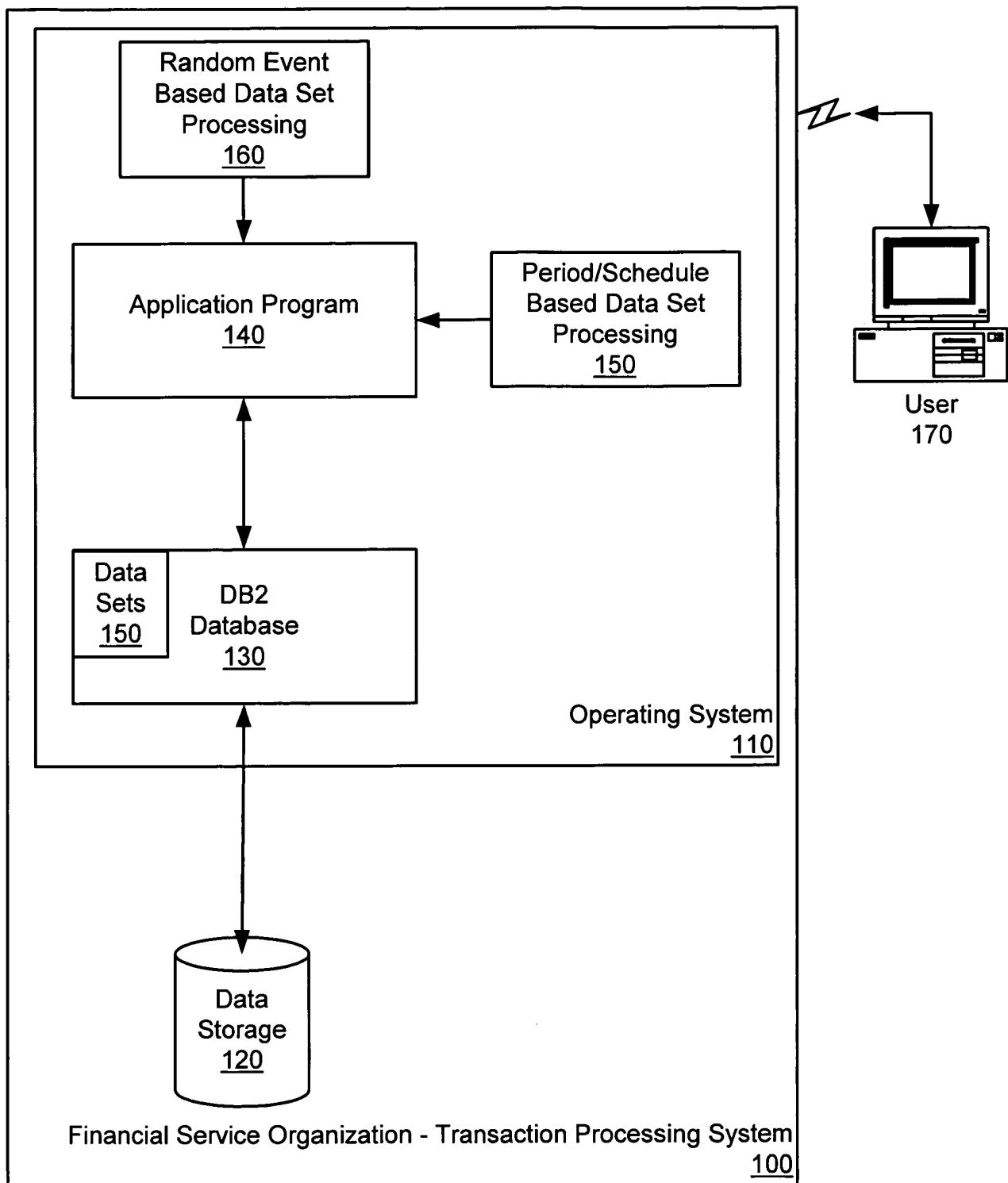


FIG. B-13b

12	10,1,10,100
2	10,1,10,200
3	10,1,20,100
9	10,2,10,300
6	20,1,10,100

FIG. B-14

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Prior Art
Figure C-1

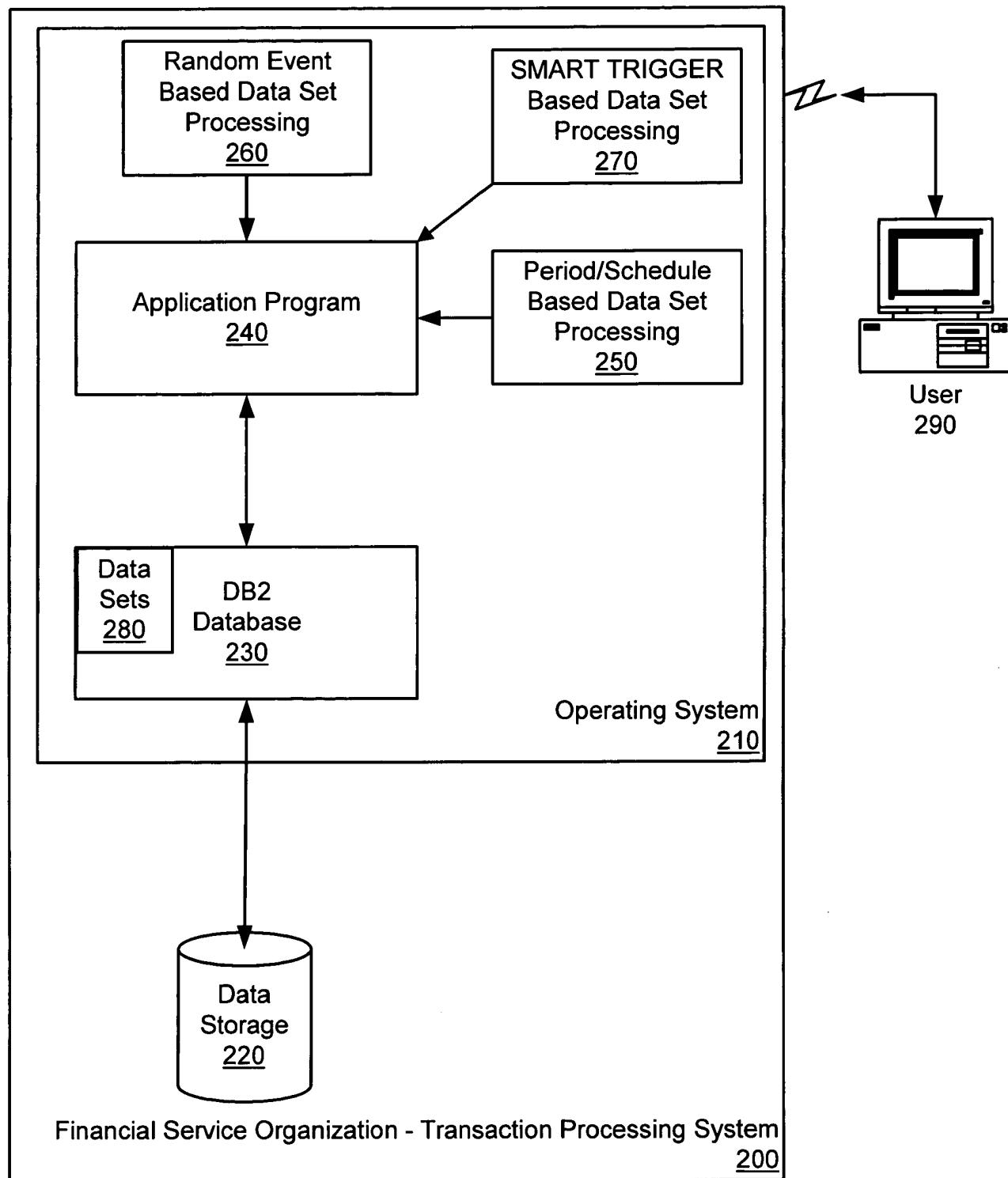


Figure C-2

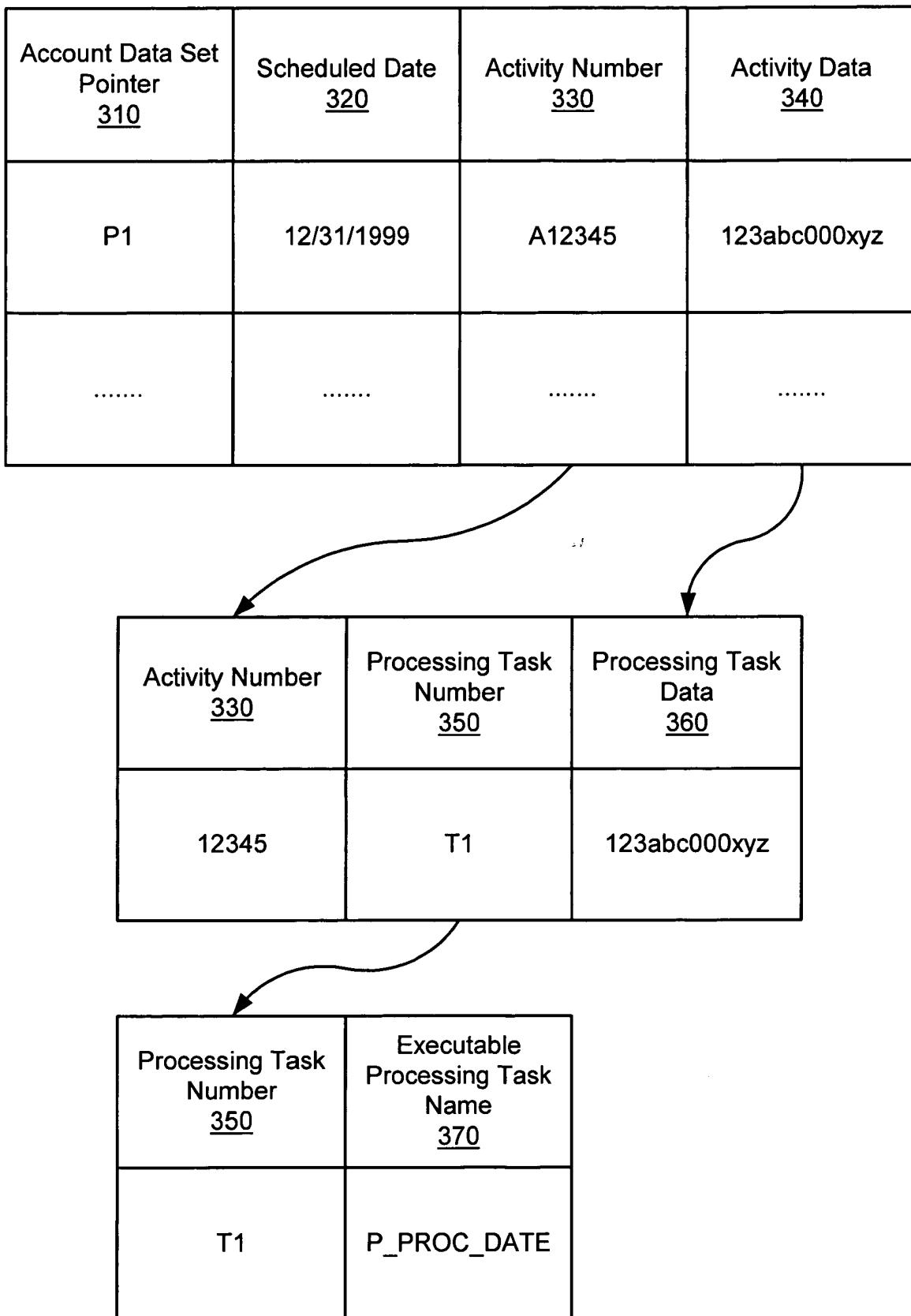


Figure C-3a

36 Jan

Todays Date <u>380</u>	Scheduled Date <u>320</u>	Account Data Set Pointer List <u>310</u>
12/31/1999	12/31/1999	A12345
.....
.....	A12399

Figure C-3b

C:\USERS\HANIF\DESKTOP\TRIGGER FILE

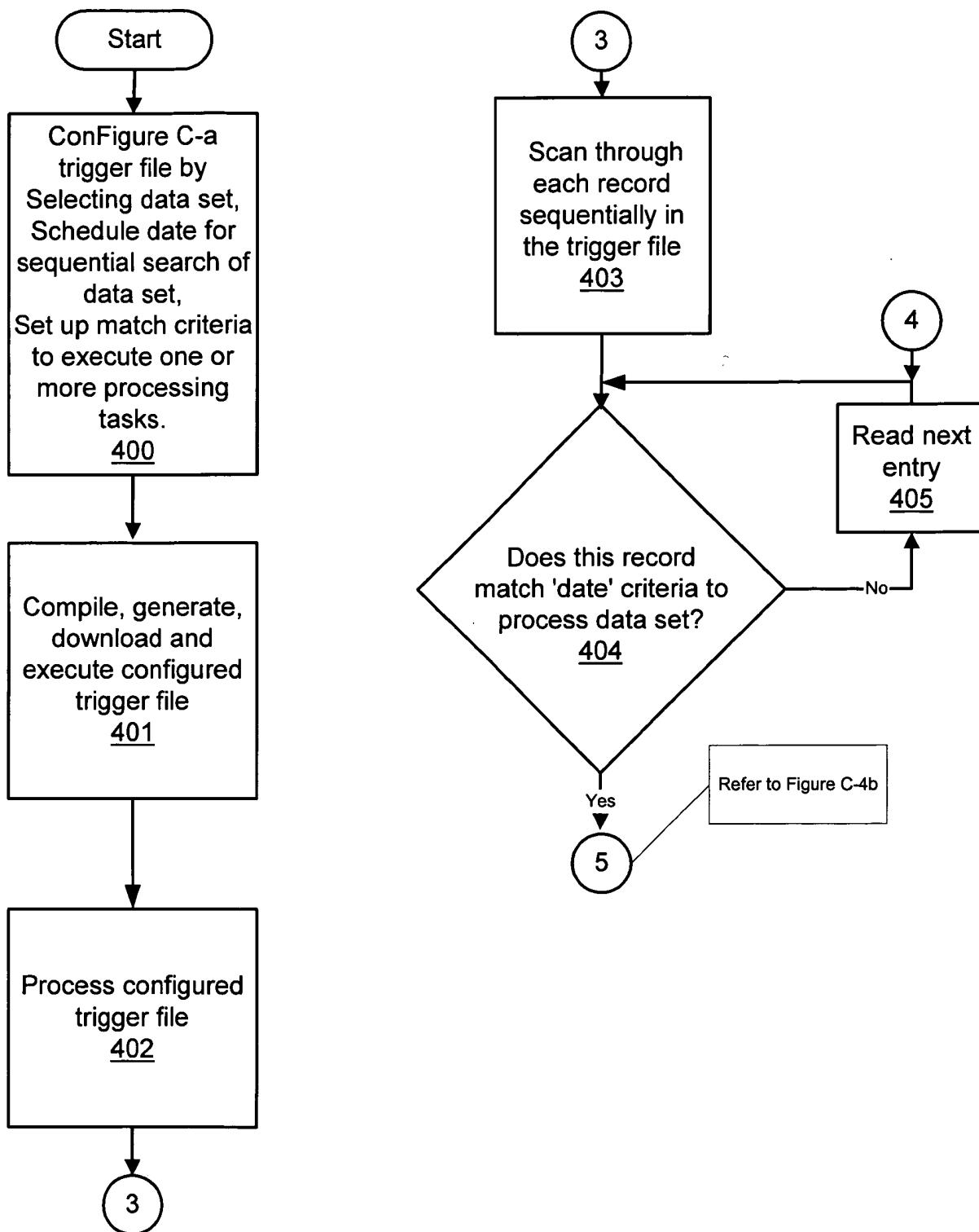
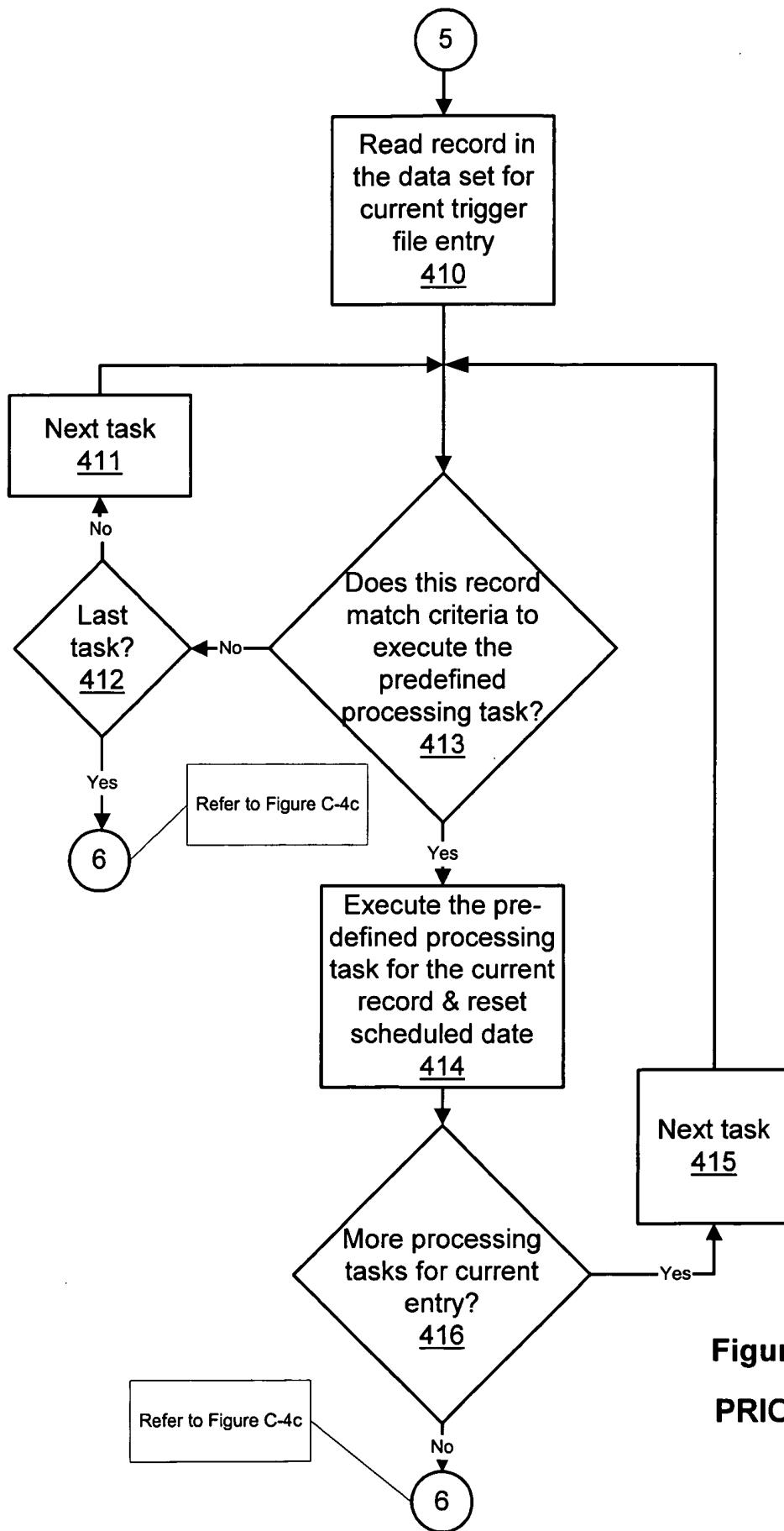


Figure C-4a

**Figure C-4b****PRIOR ART**

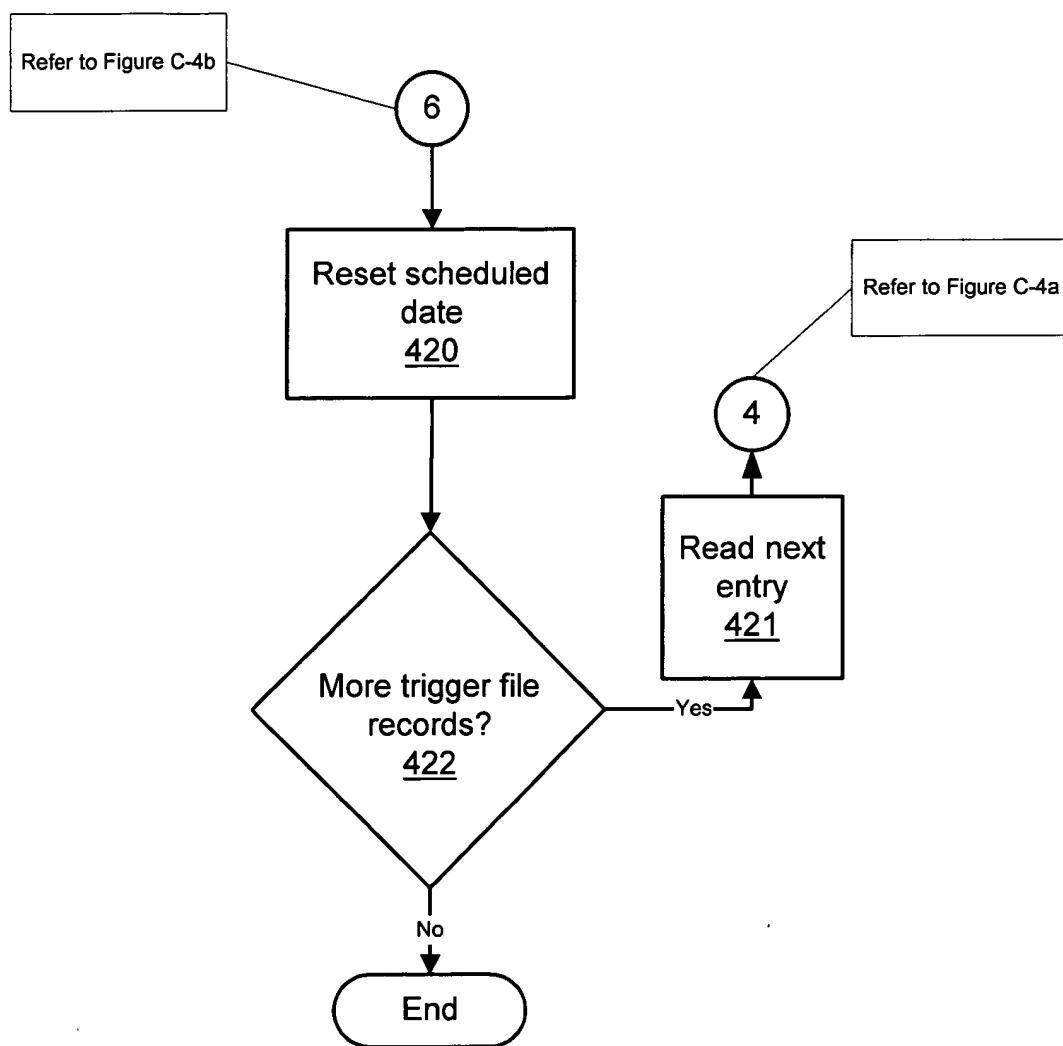


Figure C-4c

PRIOR ART

500 501 502 503 504 505 506 507 508 509

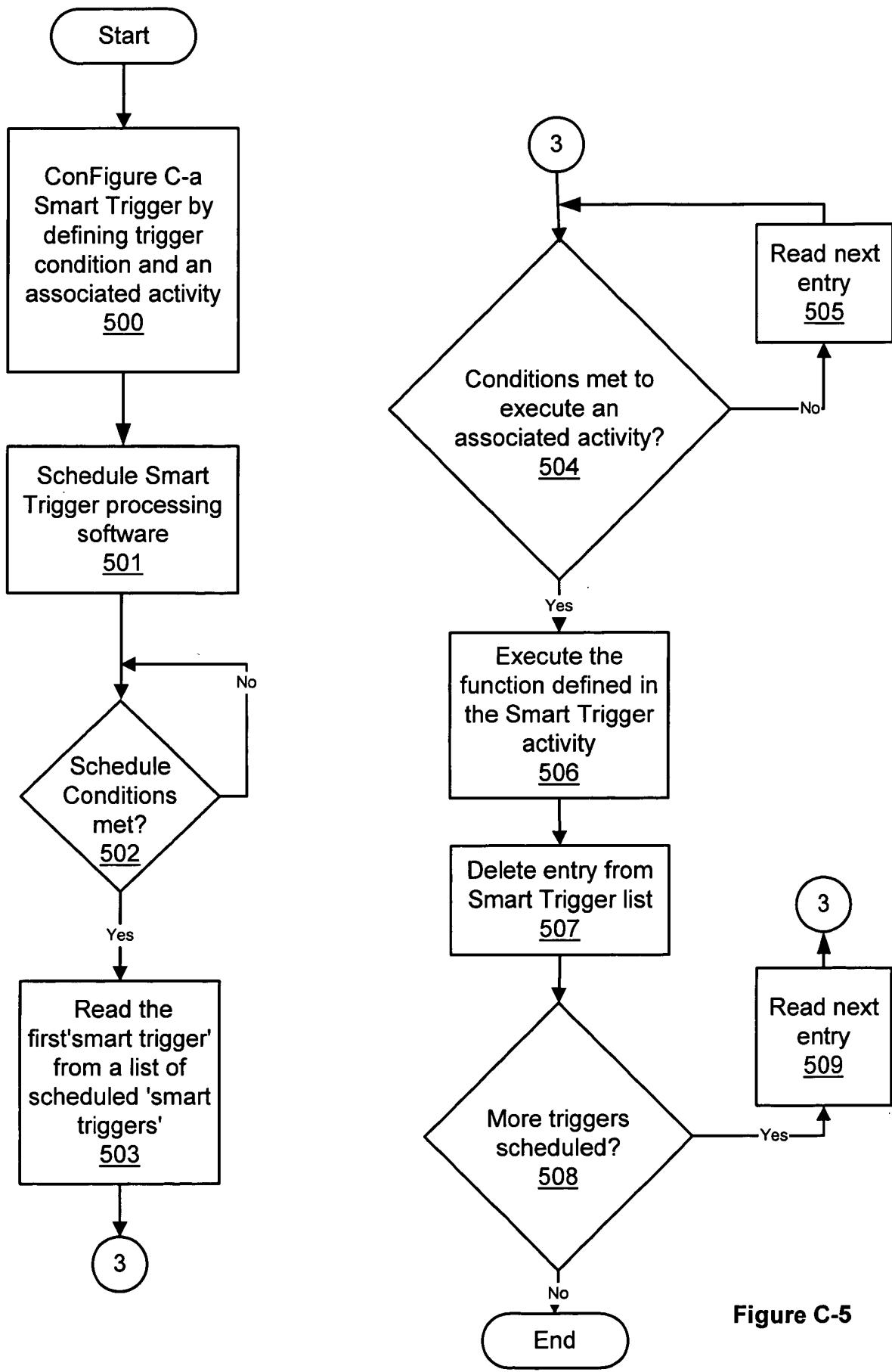


Figure C-5

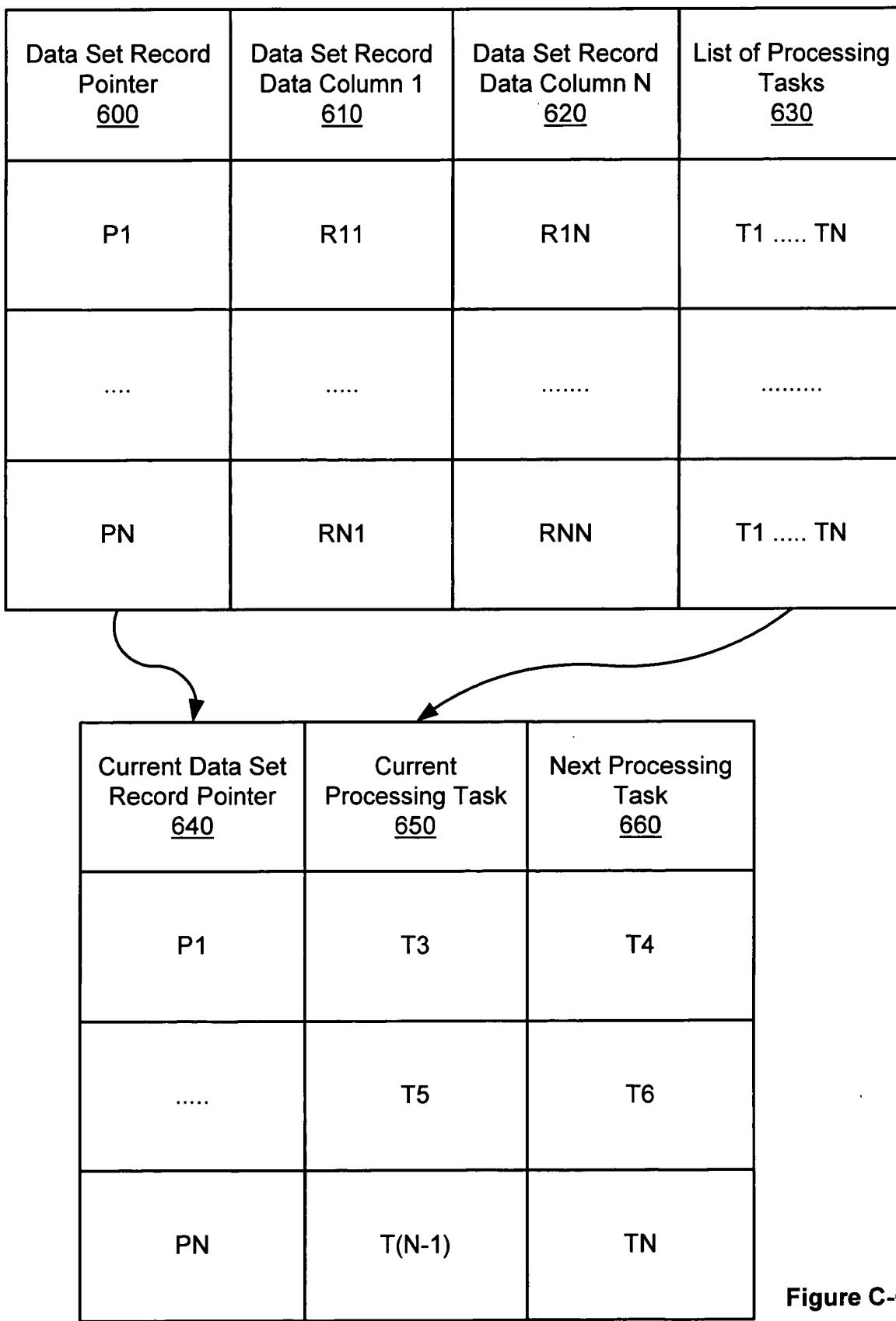


Figure C-6
PRIOR ART

Current Data Set Record Pointer <u>700</u>	Processing Task Number <u>710</u>	Current Data Set Record Pointer	Processing Task Number
P2	T1	P1	T2
P5	T1	P3	T2
PN	T1	PN	T2
Current Data Set Record Pointer	Processing Task Number	Current Data Set Record Pointer	Processing Task Number
P7	T(N-1)	P4	TN
P11	T(N-1)	P9	TN
PN	T(N-1)	PN	TN

Figure C-7

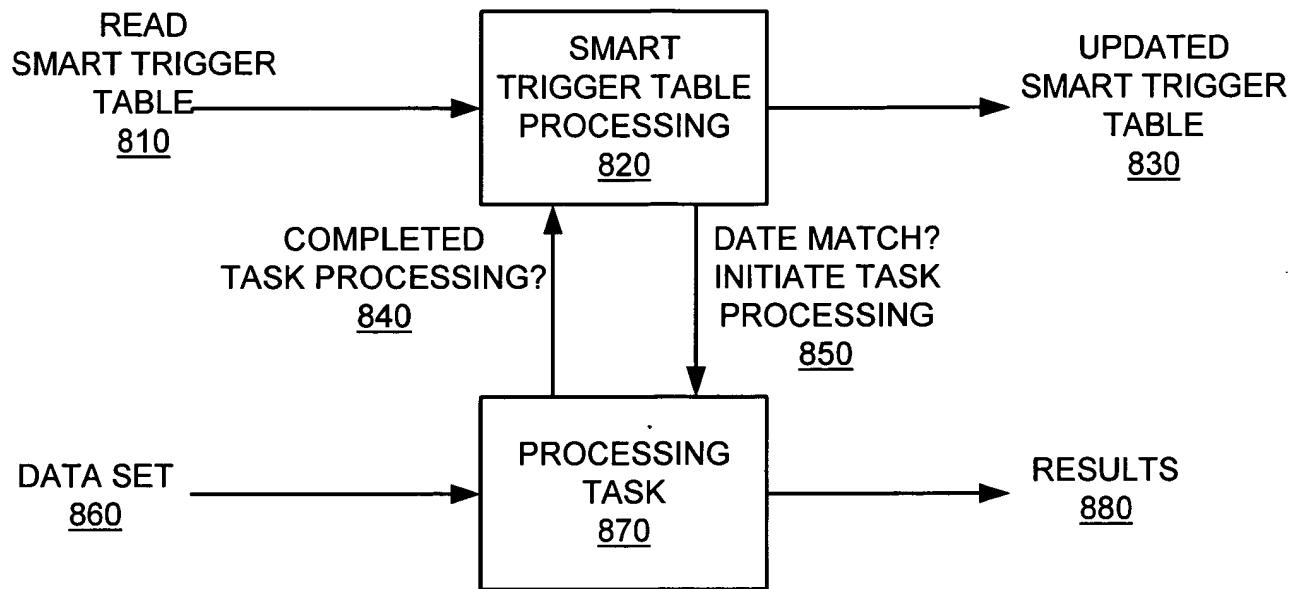


Figure C-8

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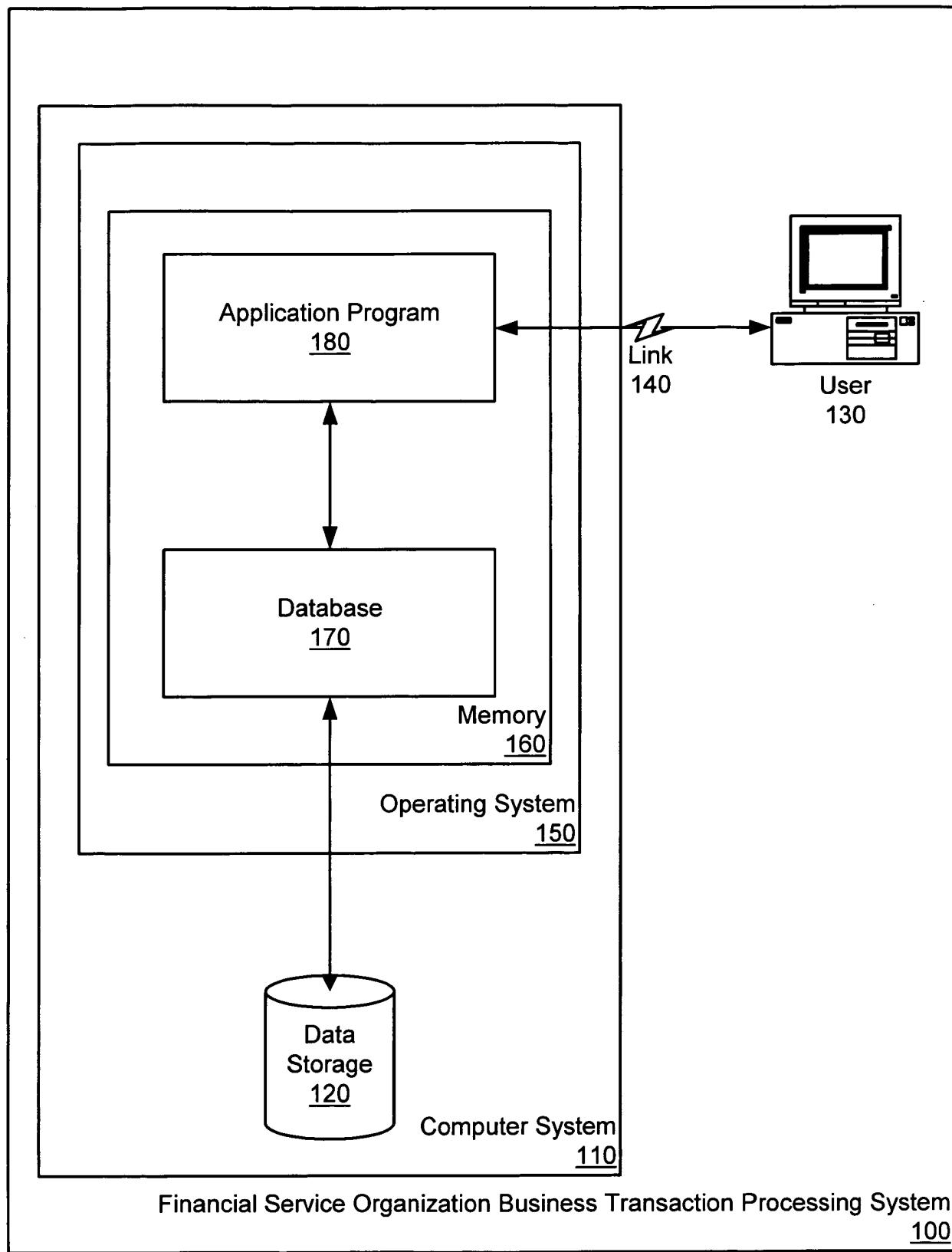


Figure D- 1

Prior Art

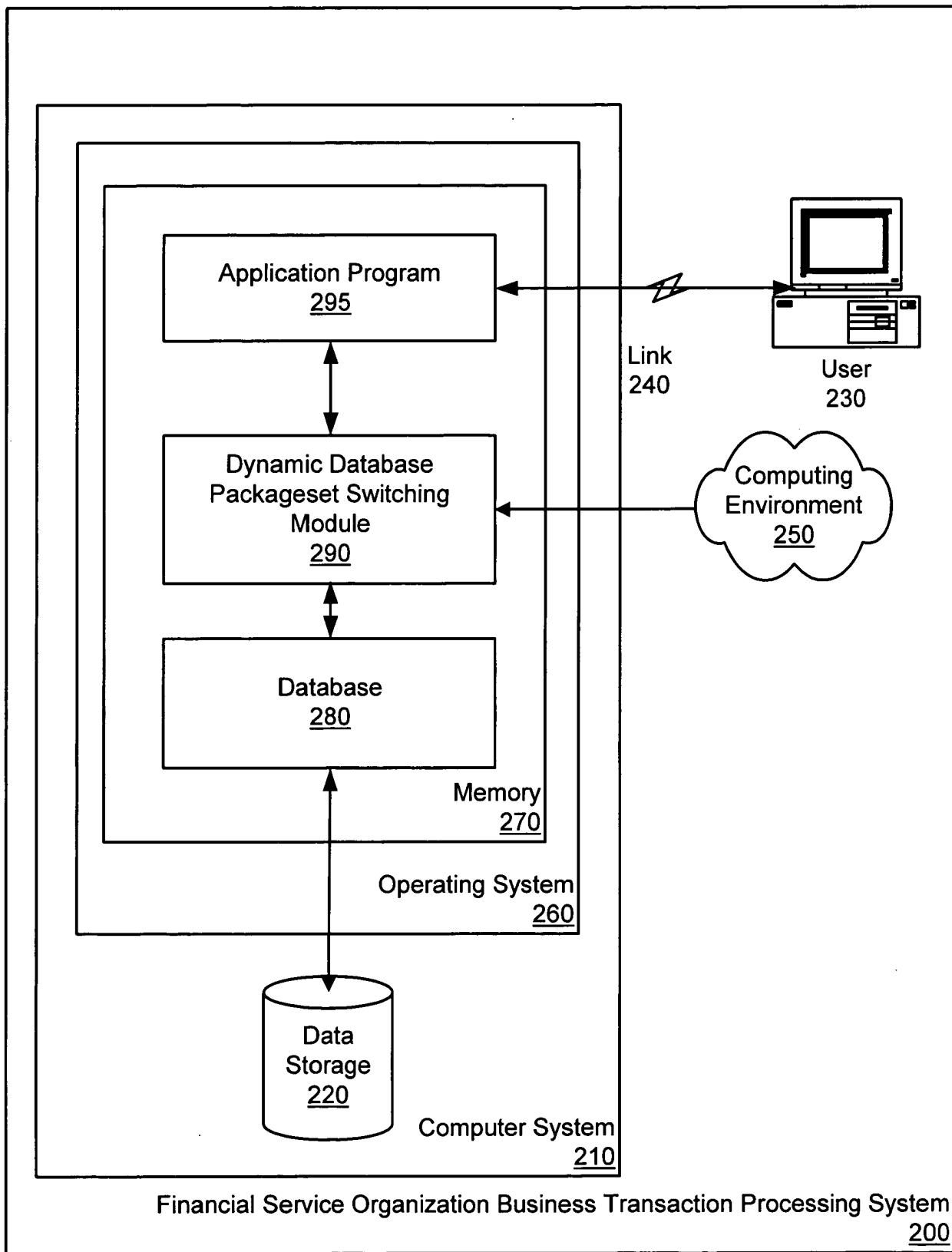


Figure D- 2

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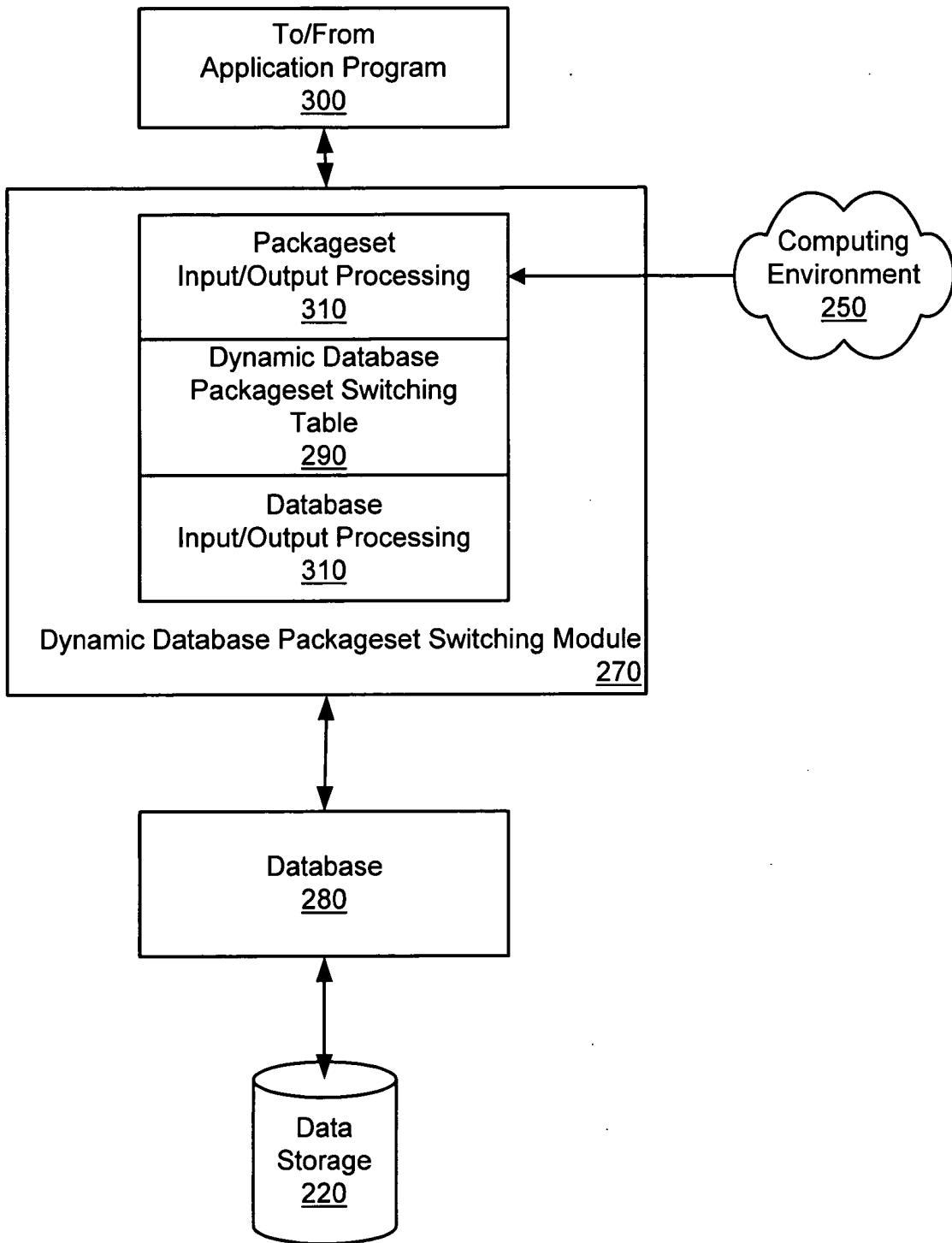


Figure D- 2a

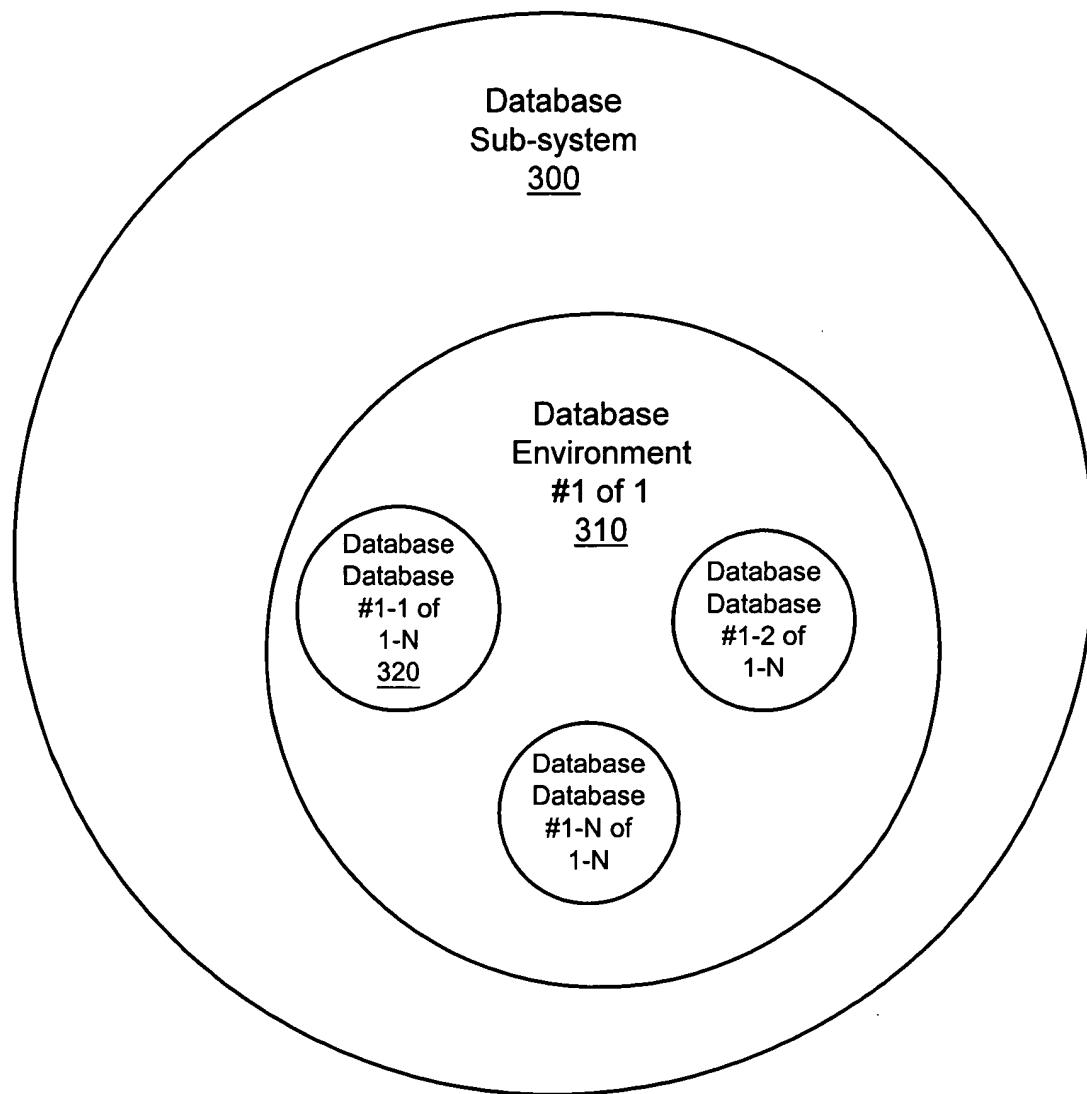


Figure D- 3

Prior Art

4.8/99

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

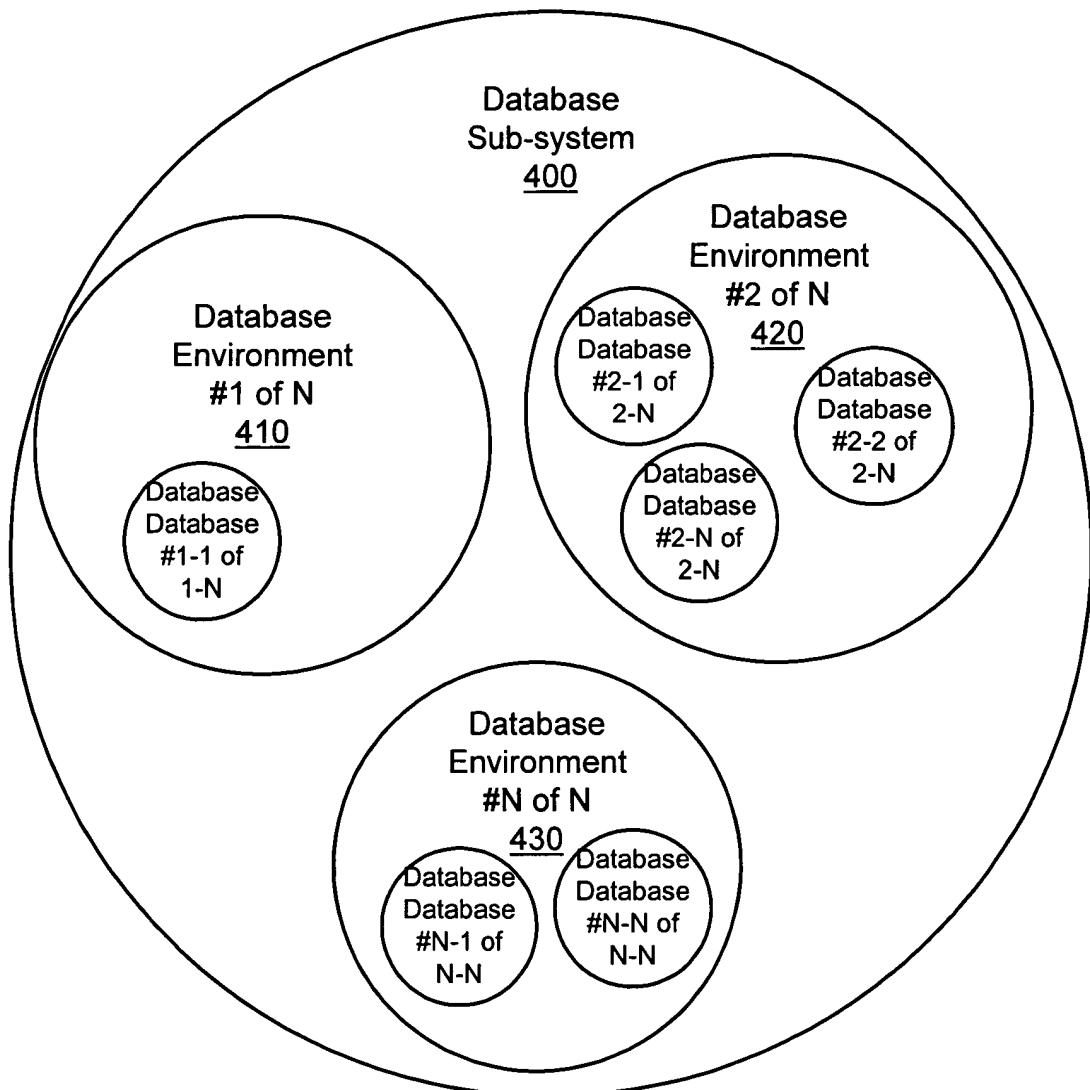


Figure D- 4

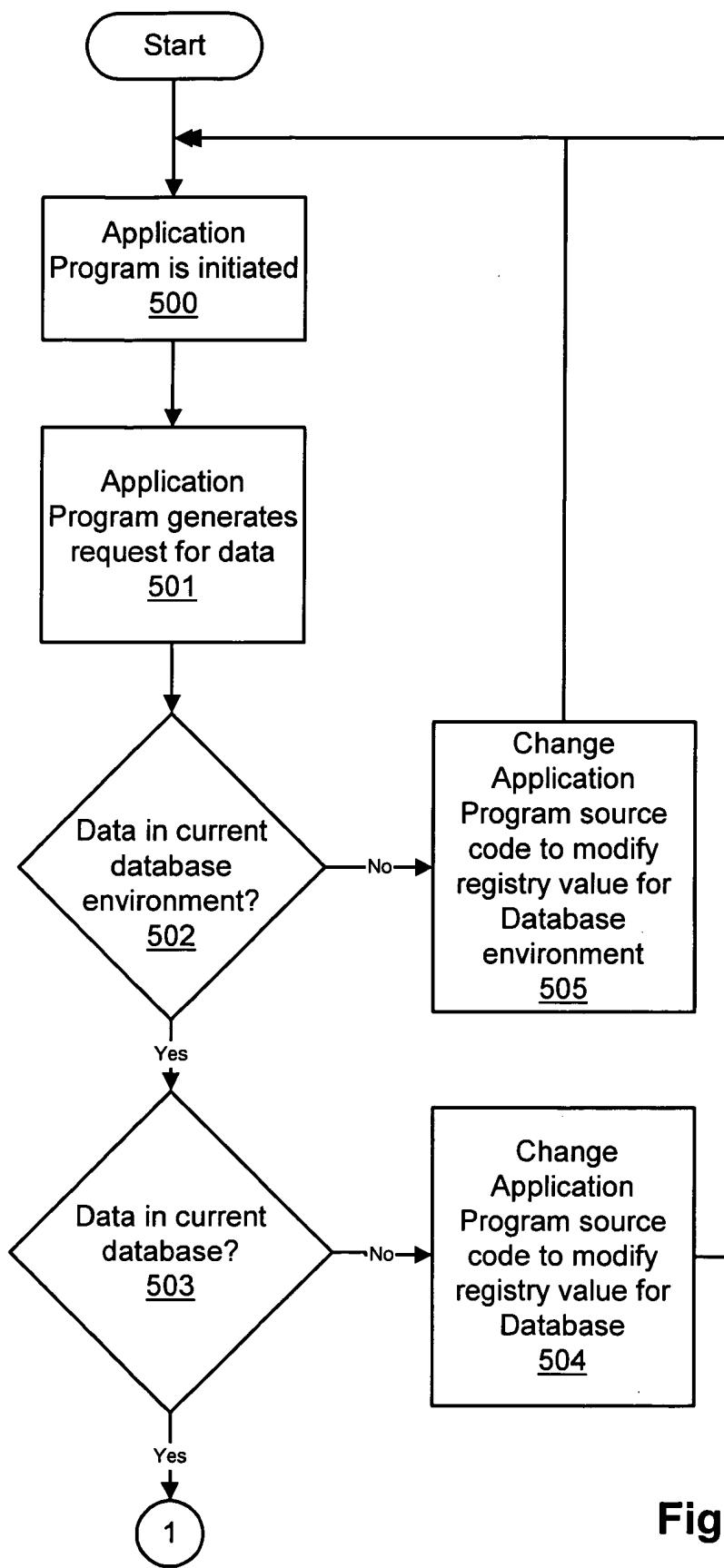


Figure D- 5

Prior Art

00 02 02 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

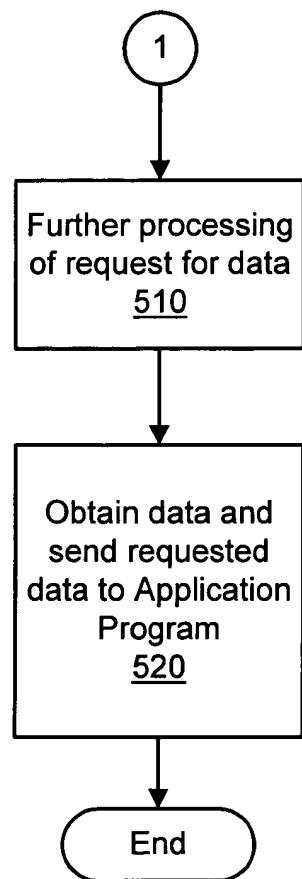


Figure D- 5a

5119m

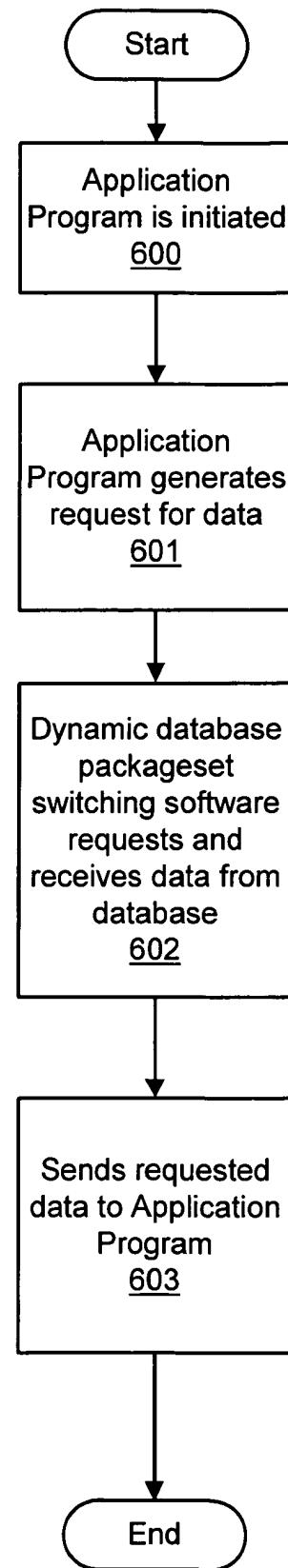
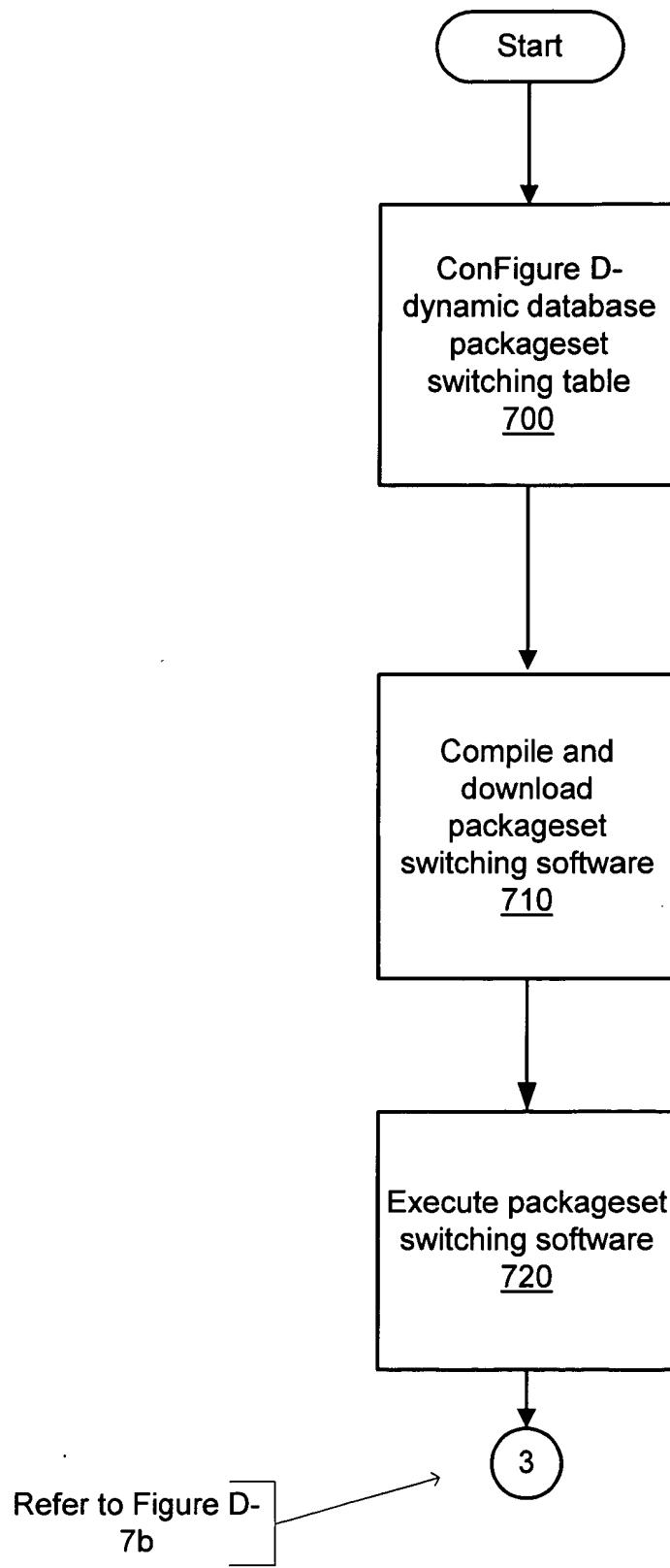


Figure D- 6

**Figure D- 7a**

Detail of 602
Figure D- 6

From Figure D- 7a

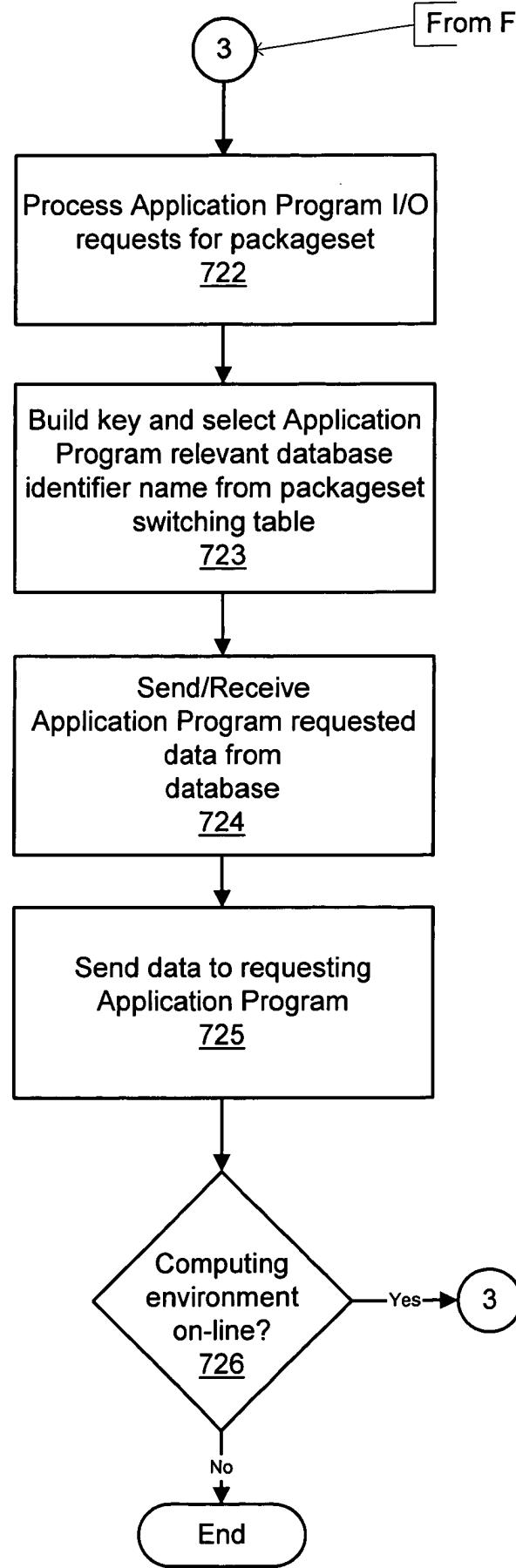


Figure D- 7b

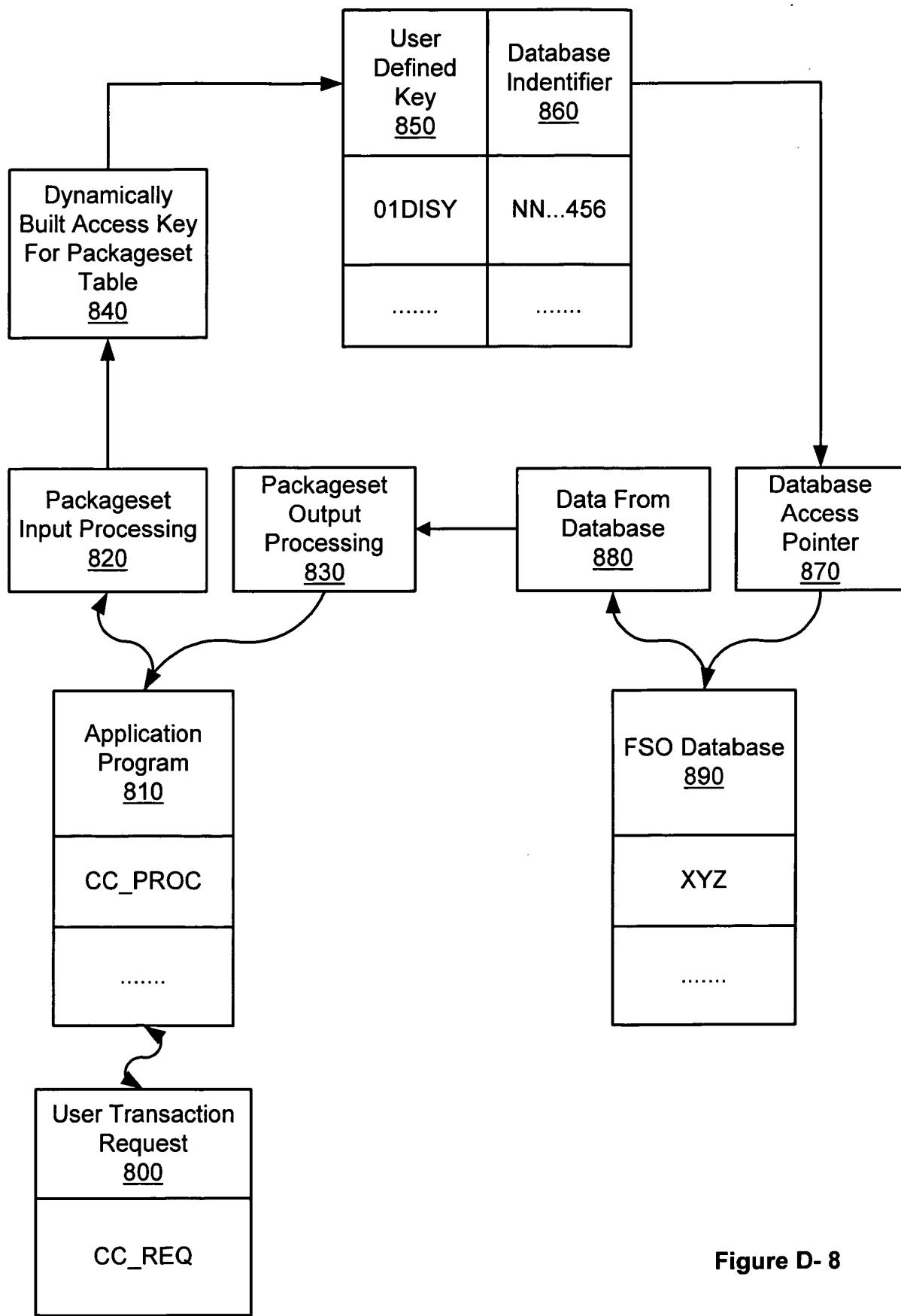
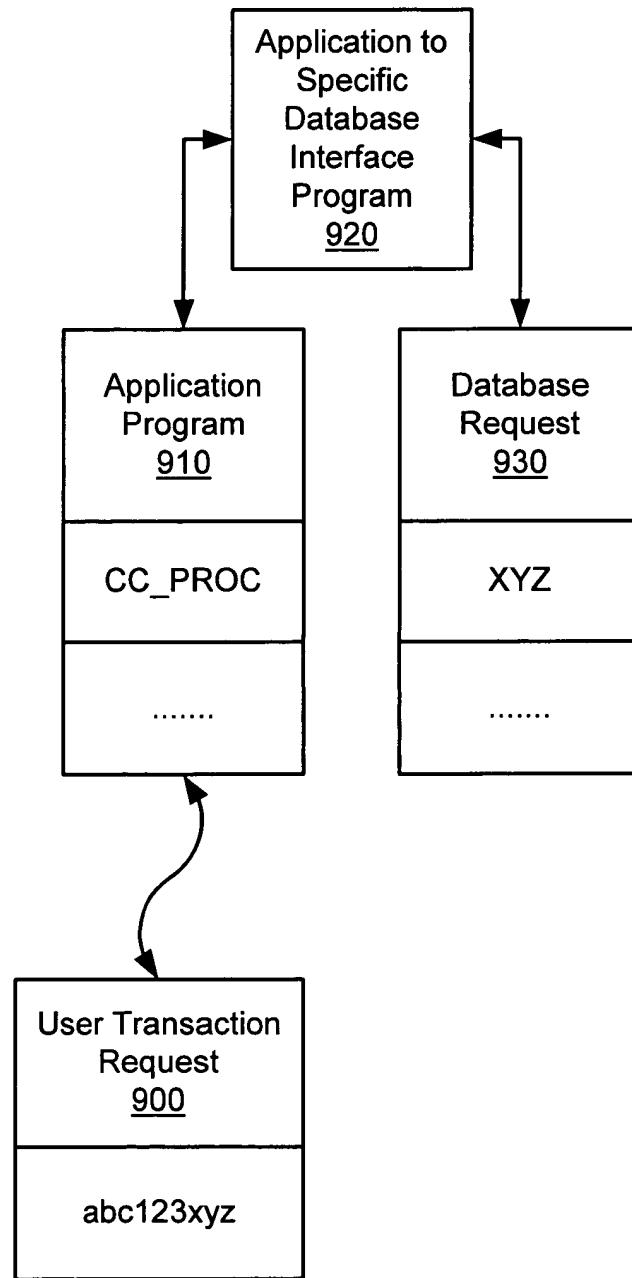


Figure D- 8



PRIOR ART

Figure D- 9

<u>122</u>	<u>124</u>	<u>120</u>
<u>DICTIONARY ELEMENTS</u>	<u>USEABLE IN KEYS?</u>	
A	NO	
B	NO	
C	NO	
D	NO	
E	NO	
F	NO	
G	NO	
H	NO	
I	NO	
J	NO	
K	NO	
L	NO	
M	NO	
N	YES	
O	YES	
P	YES	
Q	YES	
R	YES	
S	YES	
T	YES	
U	YES	
V	YES	
W	YES	
X	YES	
Y	YES	
Z	YES	

Figure D- 10

<u>AVAILABLE KEY ELEMENTS</u>	<u>USEABLE IN KEY?</u>	<u>130</u>
N	NO	
O	NO	
P	NO	
Q	NO	
R	NO	
S	NO	
T	NO	
U	NO	
V	YES	
W	YES	
X	YES	
Y	YES	
Z	YES	

Figure D- 11

<u>AVAILABLE KEY ELEMENTS</u>	<u>USE AS KEY FIELD?</u>	<u>SEQUENCE</u>	<u>140</u>
V	NO	N/A	
W	YES	2	
X	YES	1	
Y	NO	N/A	
Z	YES	3	

Figure D-
12

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<u>KEY FIELD</u>	<u>FIELD SEQUENCE</u>	<u>ELEMENT NAME</u>	<u>FIELD LENGTH</u>	<u>FIELD TYPE</u>	<u>150</u>
X	1	COMPANY ID	2	NUMERIC	
W	2	CREDIT CARD TYPE	3	CHARACTER	
Z	3	ON US/NOT ON US	1	CHARACTER	

Figure D- 13

<u>ROW</u>	<u>KEY VALUES</u>	<u>PACKAGESET SWITCHING TABLE VALUES</u>		
	X	W	Z	<u>DATABASE IDENTIFIER VALUE</u>
1	12	VIS	Y	NN1234567890123456
2	12	DIS	Y	NN1234567890123457
3	12	*	*	NN1234567890123458
4	12	*	Y	NN1234567890123459
5	14	VIS	N	NN1234567890123460
6	14	DIS	N	NN1234567890123461
7	*	*	*	NN1234567890123462

170

179

175 176 177

Figure D- 14

REF ID: A11234567890

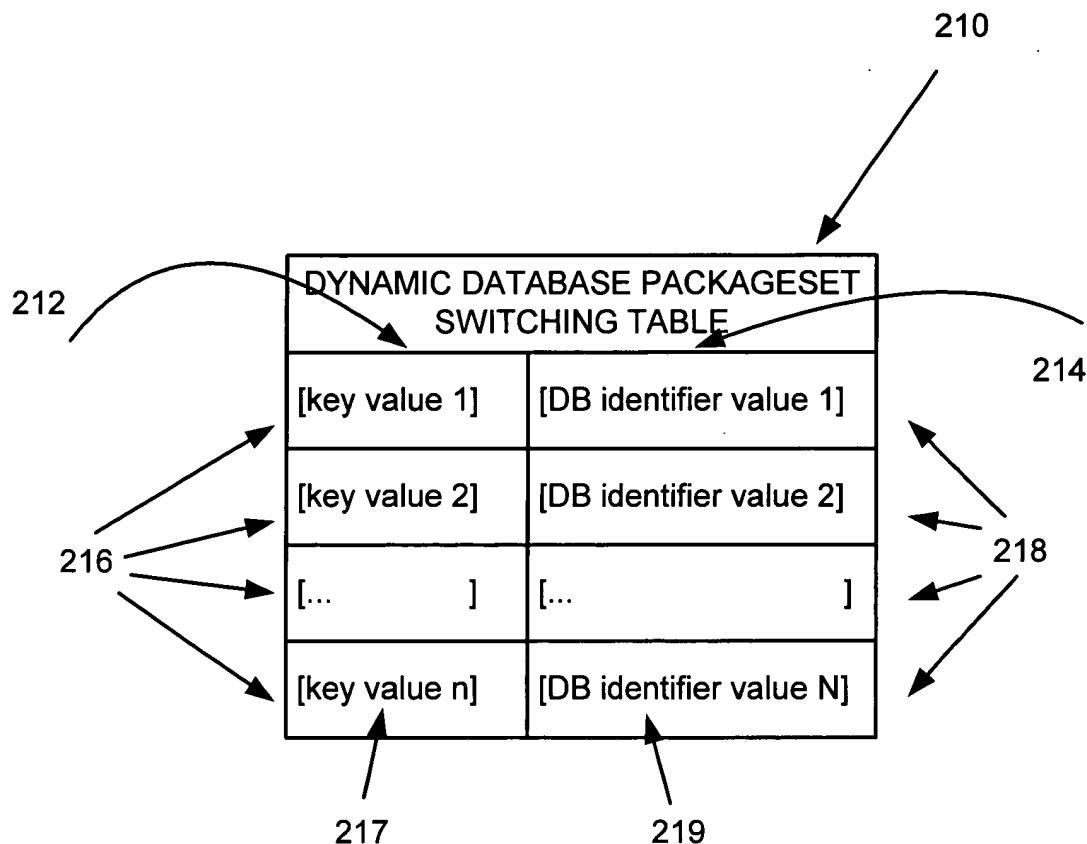


Figure D- 15

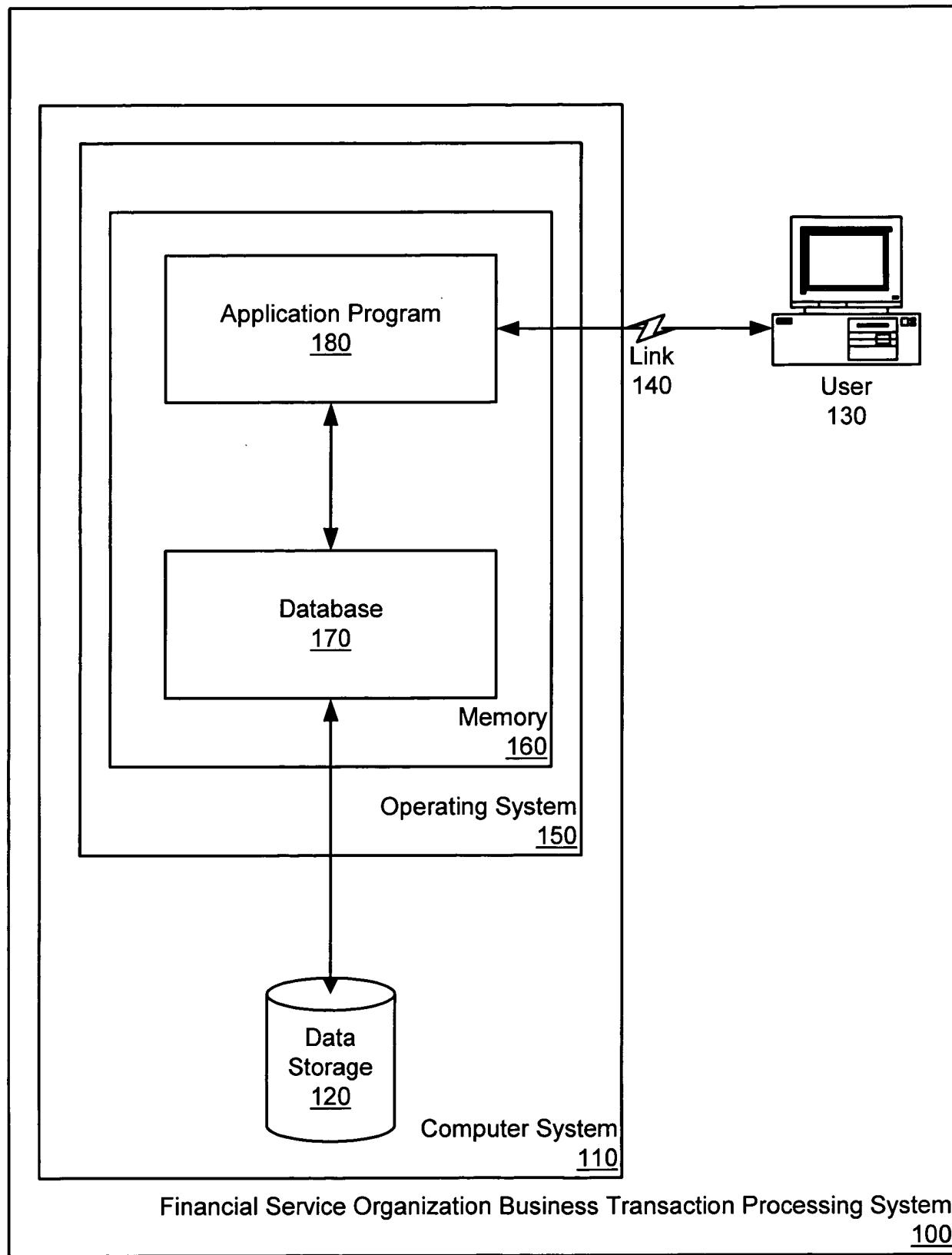


Figure E- 1

Prior Art

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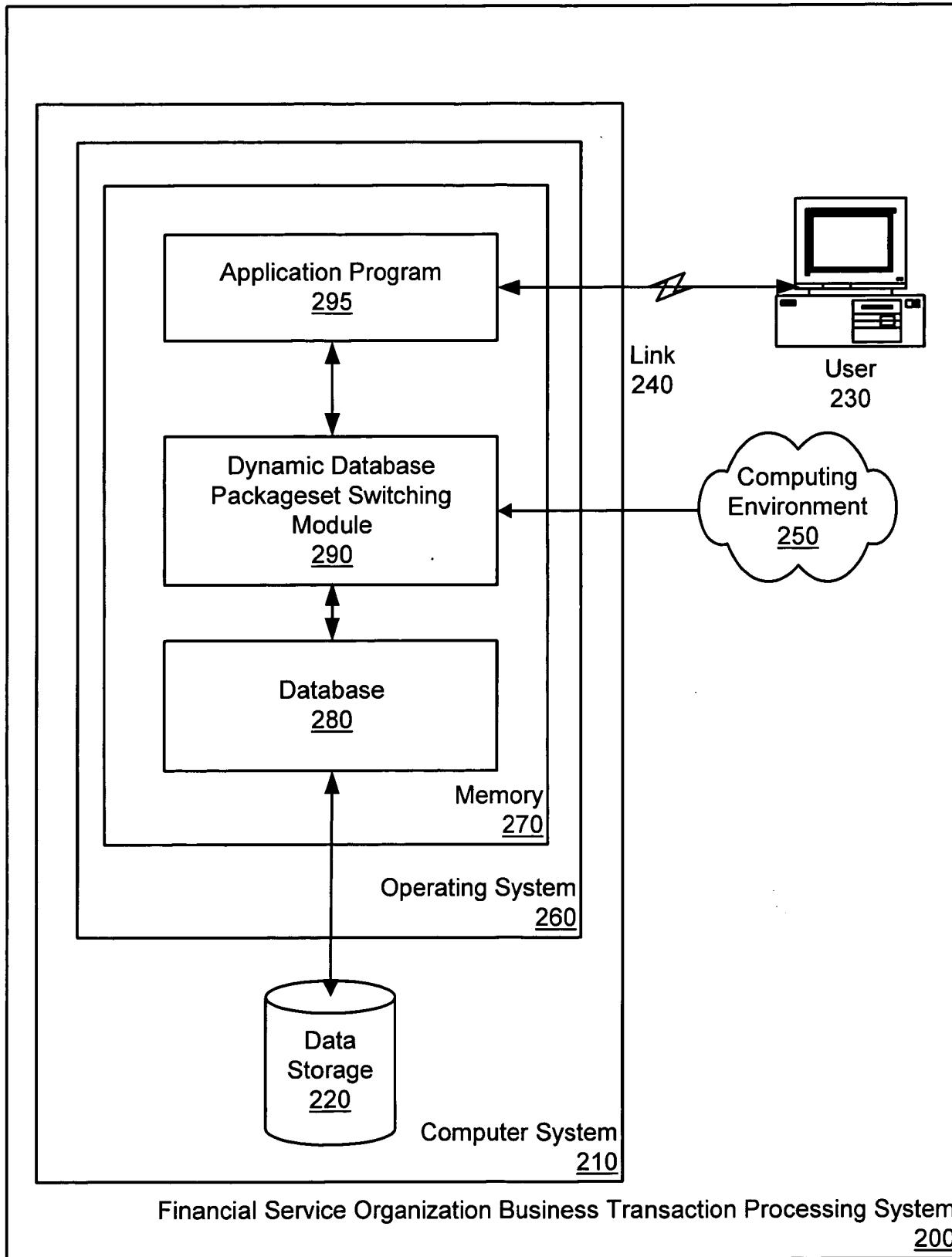


Figure E- 2

62
97

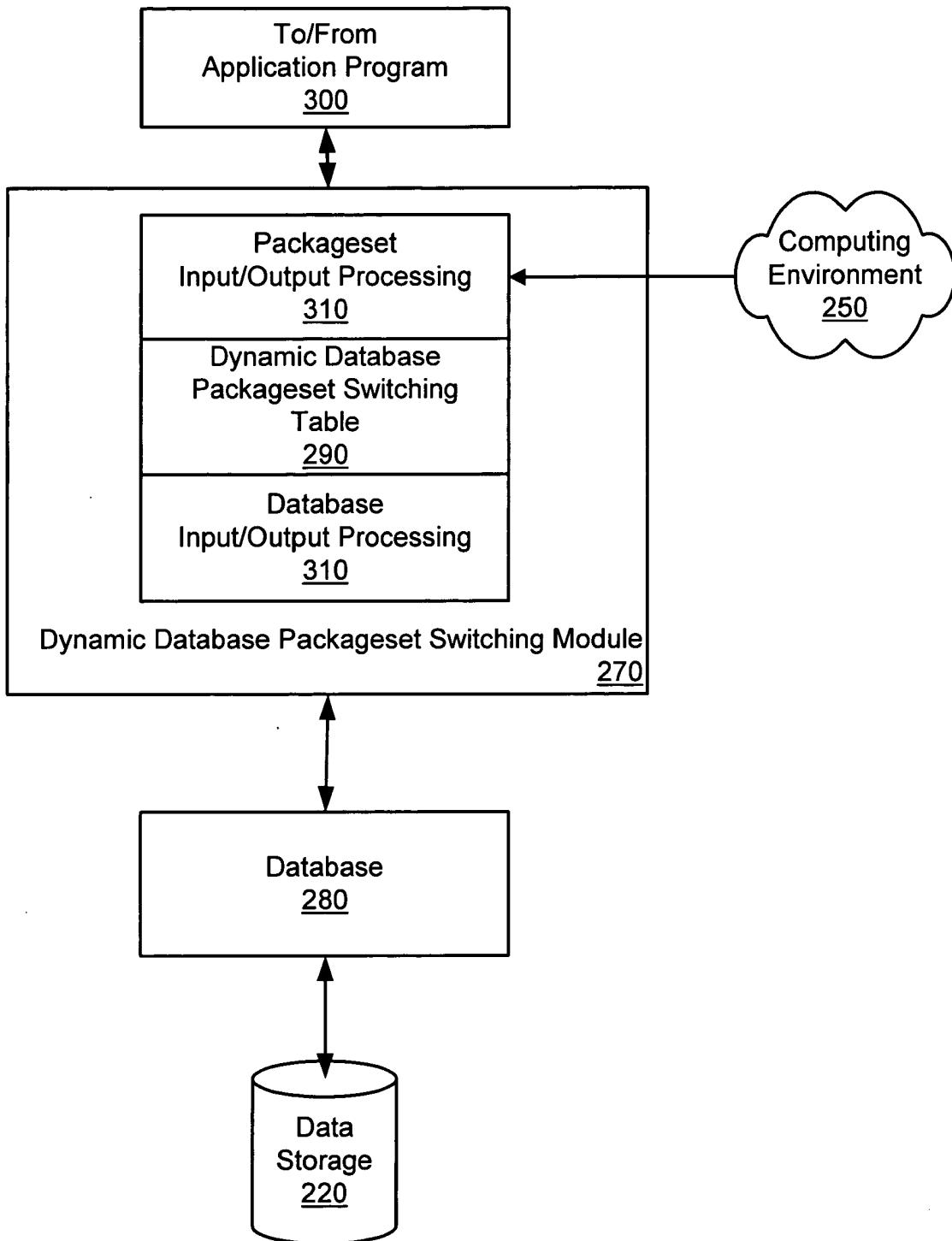


Figure E- 2a

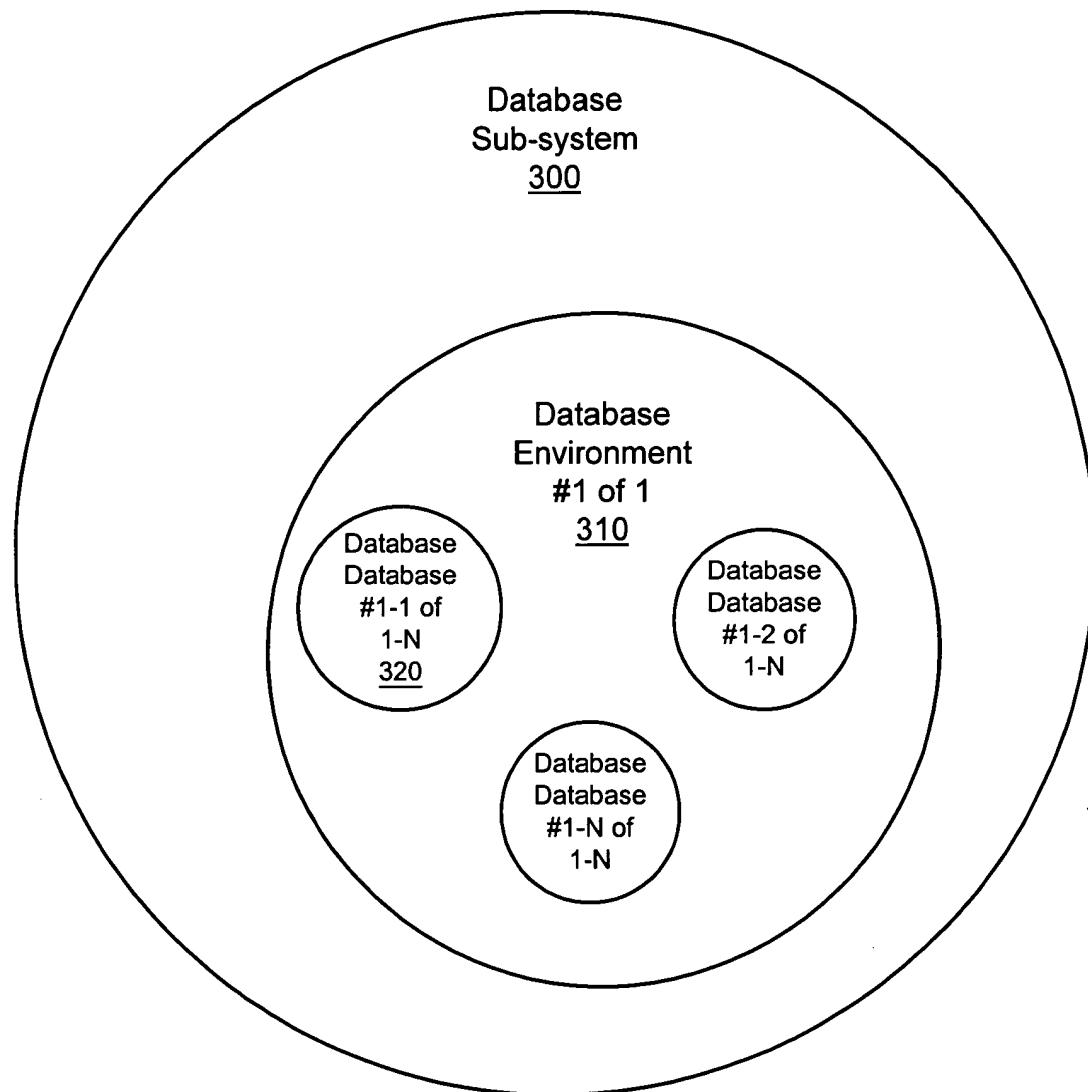


Figure E- 3

Prior Art

(a) 1/09

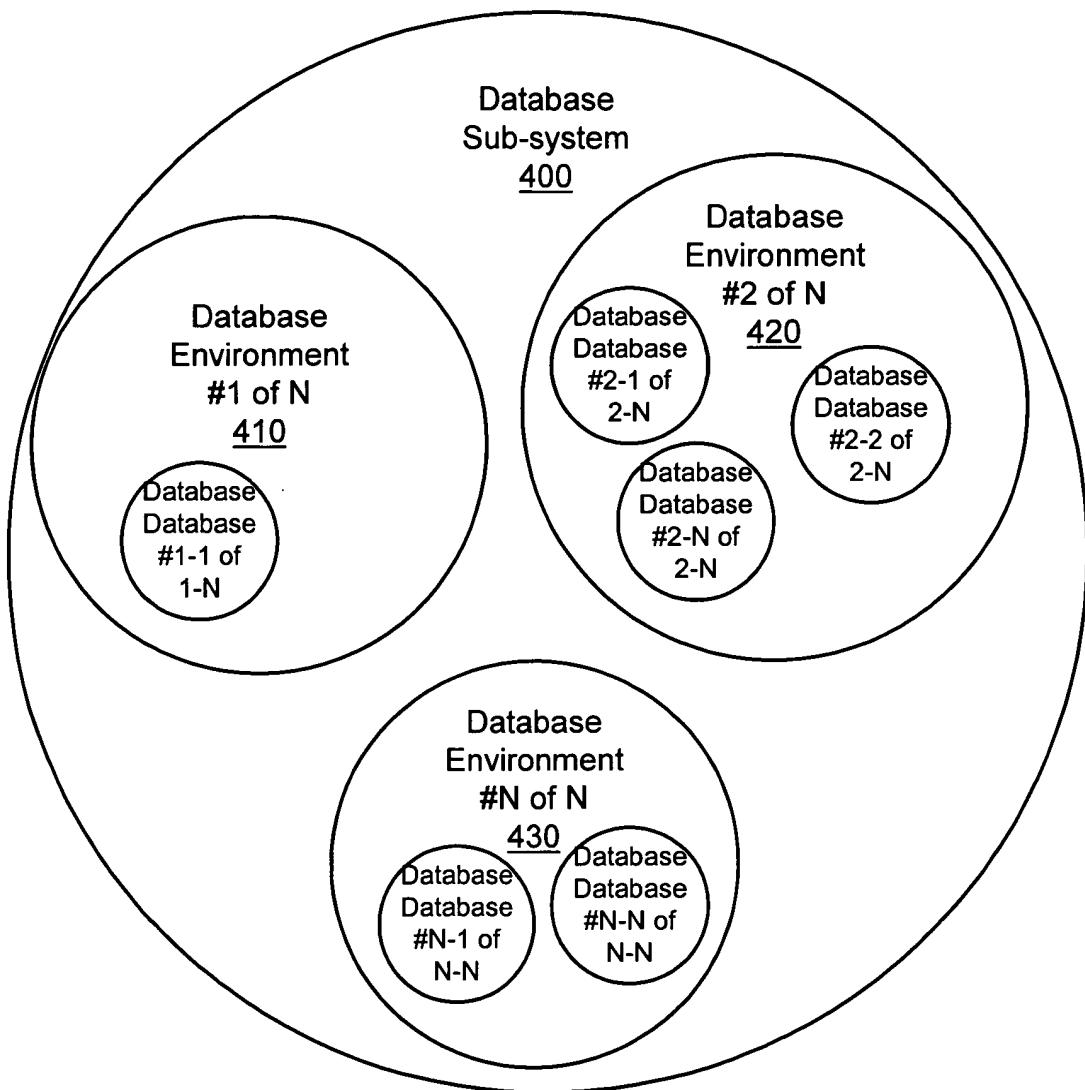


Figure E- 4

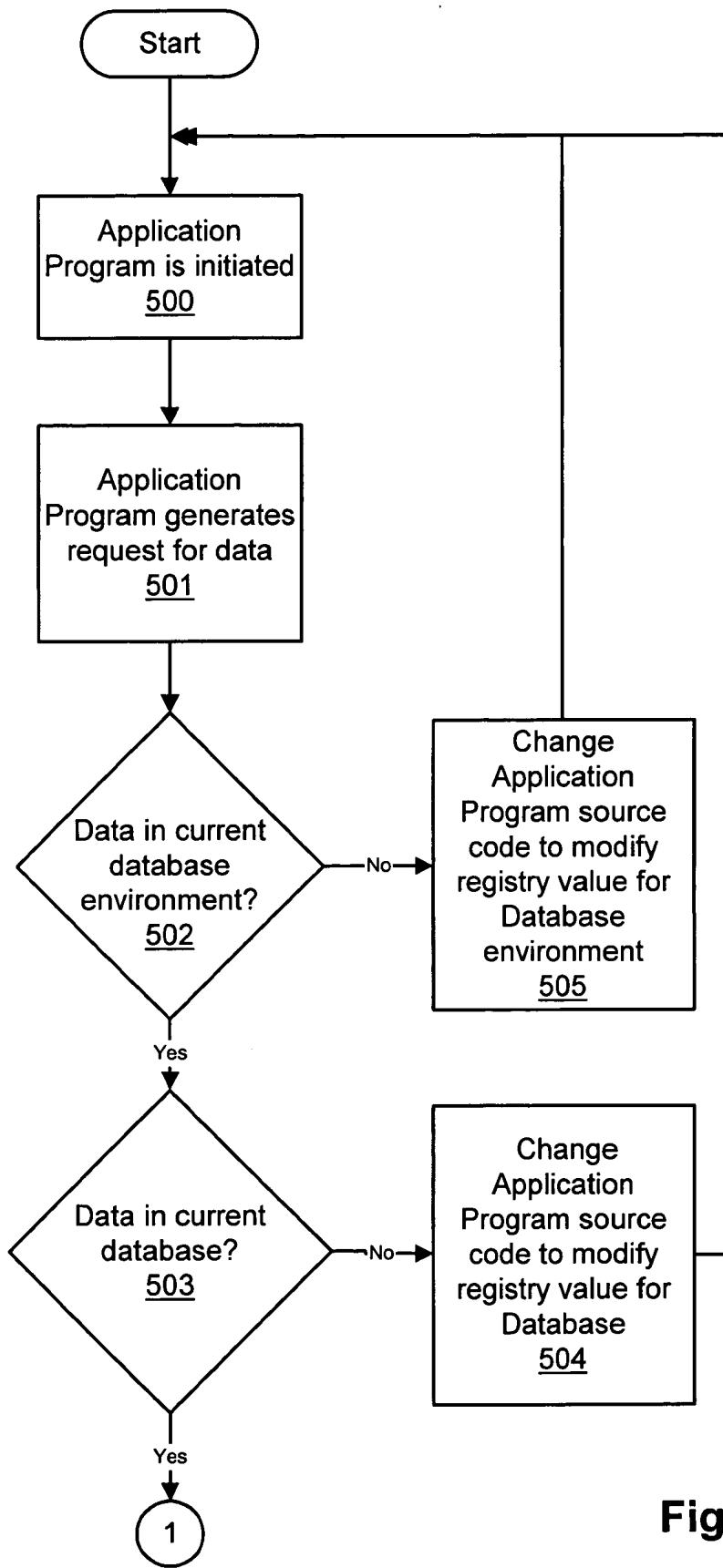


Figure E- 5

Prior Art

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00000000000000000000000000000000

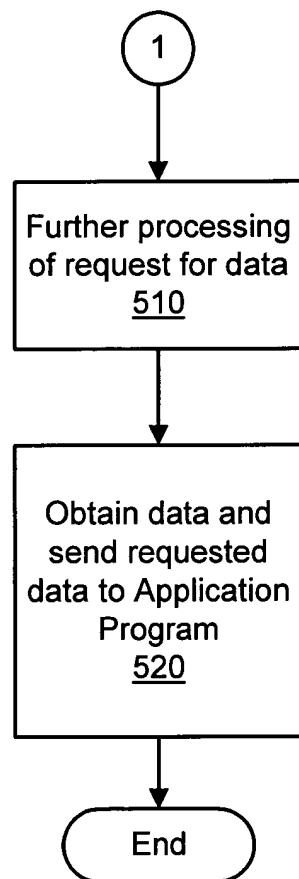


Figure E- 5a

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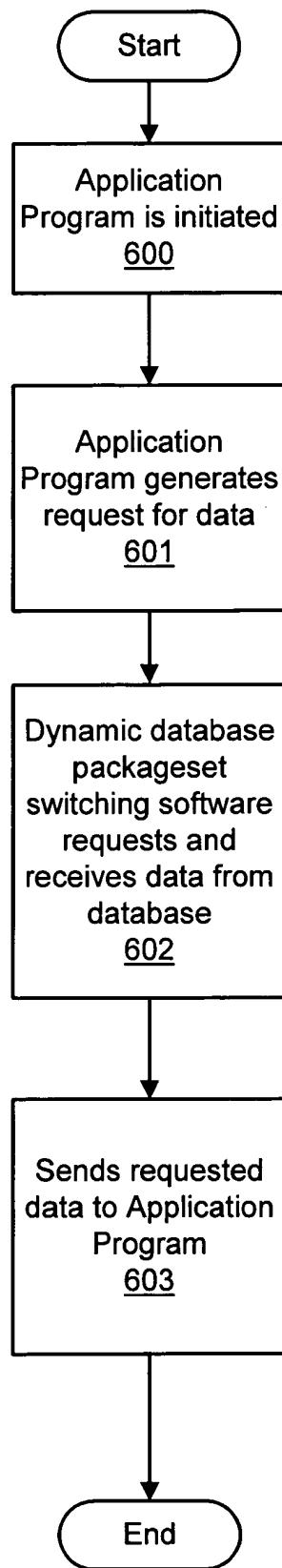
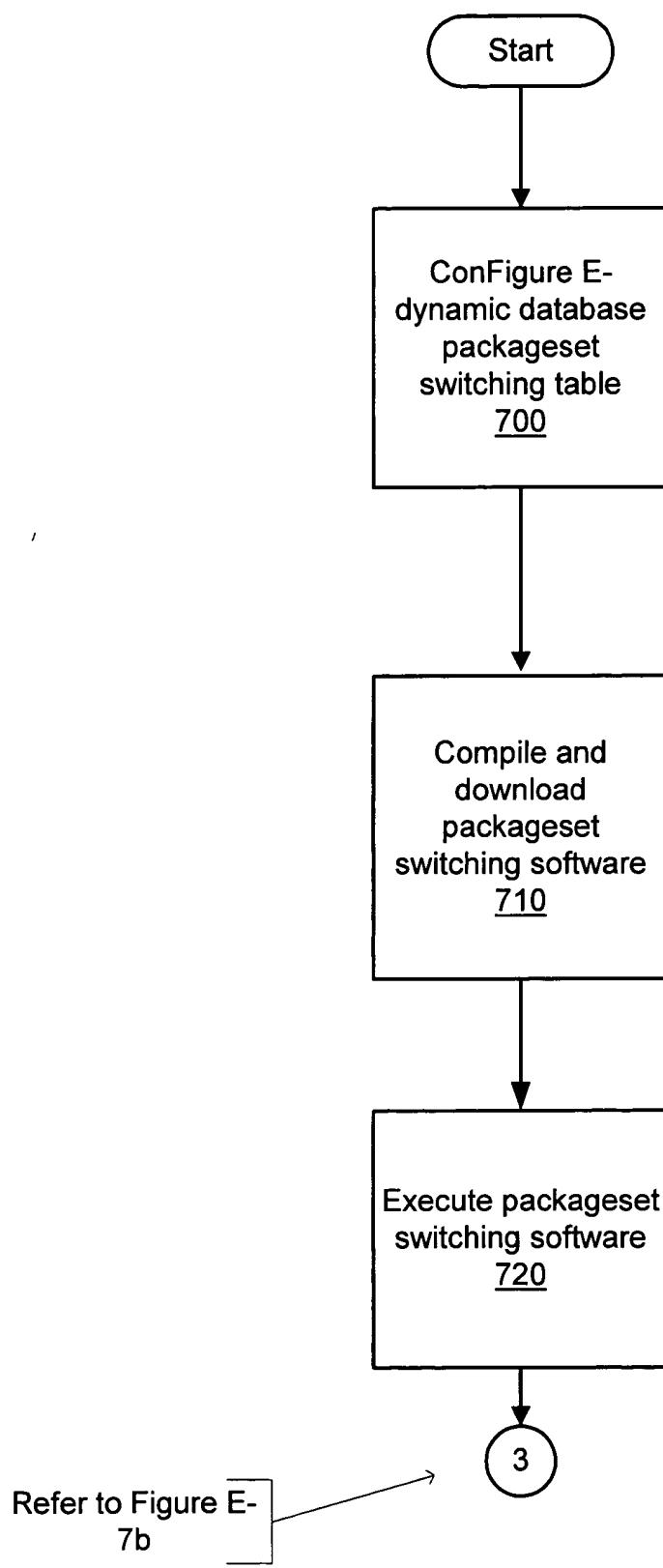


Figure E- 6

**Figure E- 7a**

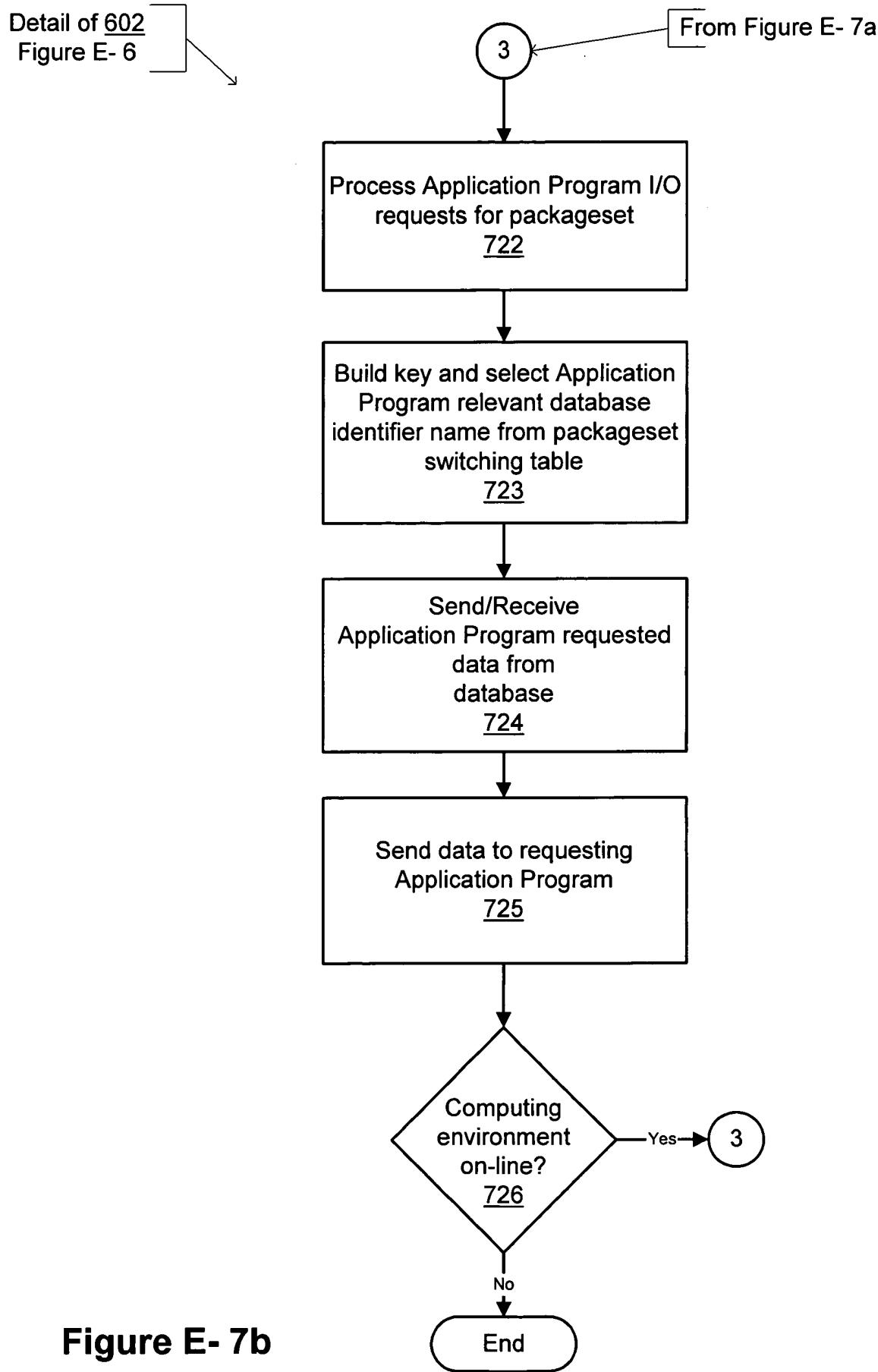


Figure E- 7b

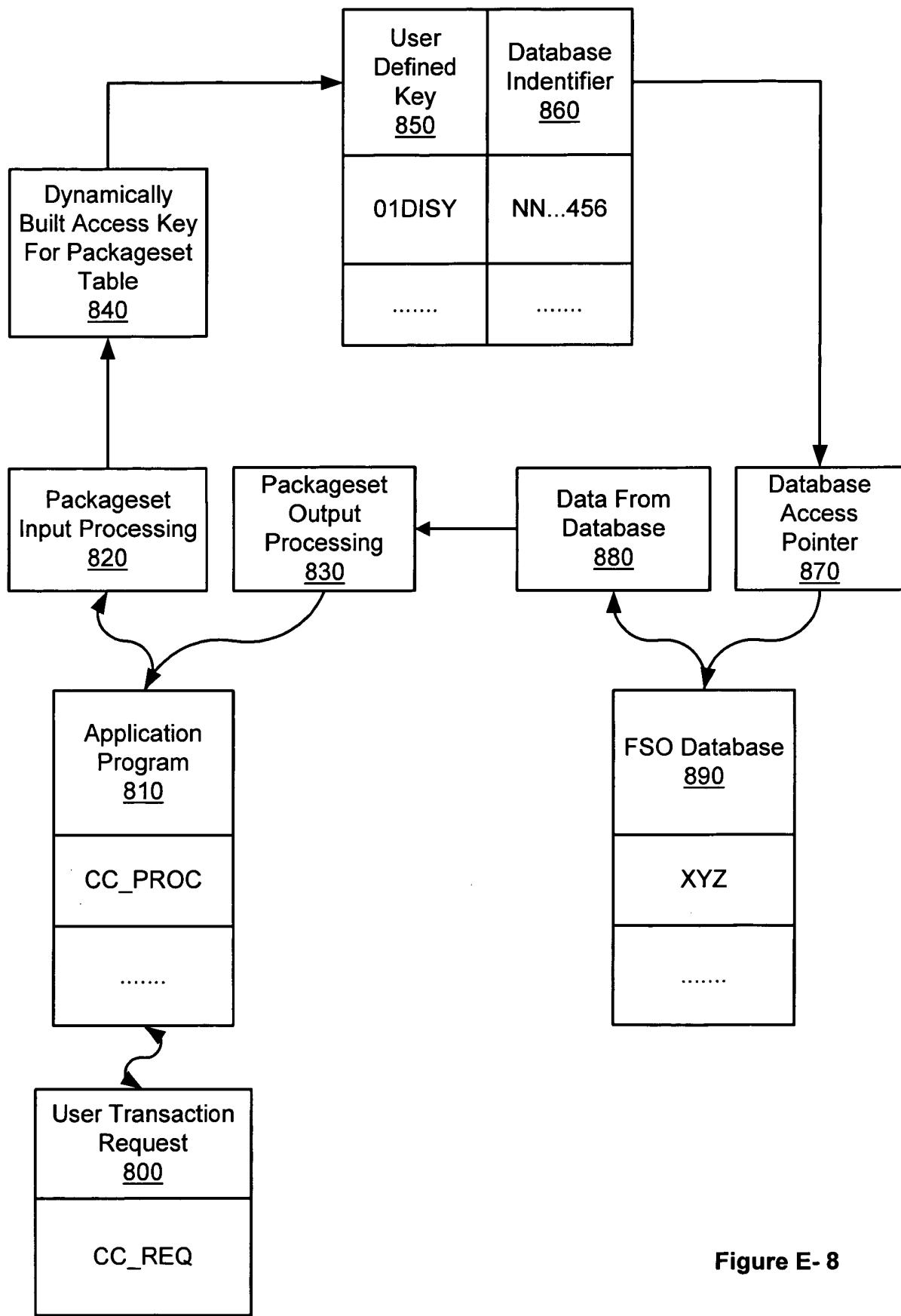
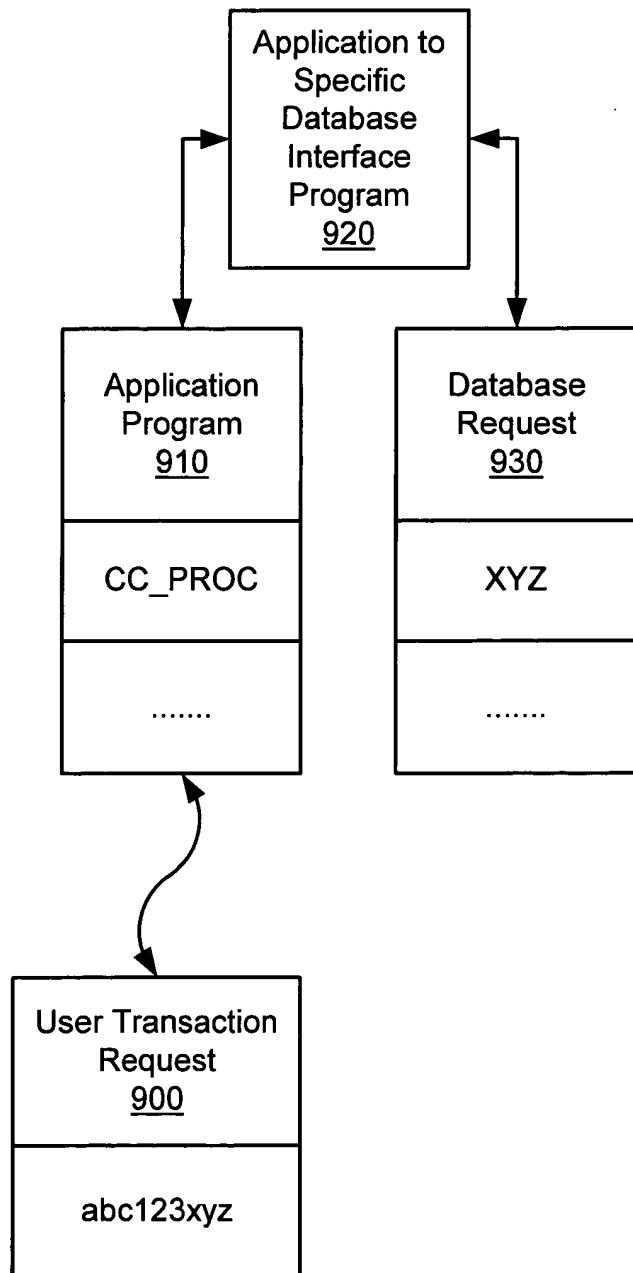


Figure E- 8

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PRIOR ART

Figure E- 9

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<u>122</u>	<u>124</u>	<u>120</u>
<u>DICTIONARY ELEMENTS</u>	<u>USEABLE IN KEYS?</u>	
A	NO	
B	NO	
C	NO	
D	NO	
E	NO	
F	NO	
G	NO	
H	NO	
I	NO	
J	NO	
K	NO	
L	NO	
M	NO	
N	YES	
O	YES	
P	YES	
Q	YES	
R	YES	
S	YES	
T	YES	
U	YES	
V	YES	
W	YES	
X	YES	
Y	YES	
Z	YES	

Figure E- 10

	<u>AVAILABLE KEY ELEMENTS</u>	<u>USEABLE IN KEY?</u>	<u>130</u>
N		NO	
O		NO	
P		NO	
Q		NO	
R		NO	
S		NO	
T		NO	
U		NO	
V		YES	
W		YES	
X		YES	
Y		YES	
Z		YES	

Figure E- 11

	<u>AVAILABLE KEY ELEMENTS</u>	<u>USE AS KEY FIELD?</u>	<u>SEQUENCE</u>	<u>140</u>
V		NO	N/A	
W		YES	2	
X		YES	1	
Y		NO	N/A	
Z		YES	3	

Figure E-
12

74190

<u>KEY FIELD</u>	<u>FIELD SEQUENCE</u>	<u>ELEMENT NAME</u>	<u>FIELD LENGTH</u>	<u>FIELD TYPE</u>
X	1	COMPANY ID	2	NUMERIC
W	2	CREDIT CARD TYPE	3	CHARACTER
Z	3	ON US/NOT ON US	1	CHARACTER

Figure E- 13

<u>ROW</u>	<u>KEY VALUES</u>	<u>PACKAGESET SWITCHING TABLE VALUES</u>		
	X	W	Z	<u>DATABASE IDENTIFIER VALUE</u>
1	12	VIS	Y	NN1234567890123456
2	12	DIS	Y	NN1234567890123457
3	12	*	*	NN1234567890123458
4	12	*	Y	NN1234567890123459
5	14	VIS	N	NN1234567890123460
6	14	DIS	N	NN1234567890123461
7	*	*	*	NN1234567890123462

170

175 176 177 179

Figure E- 14

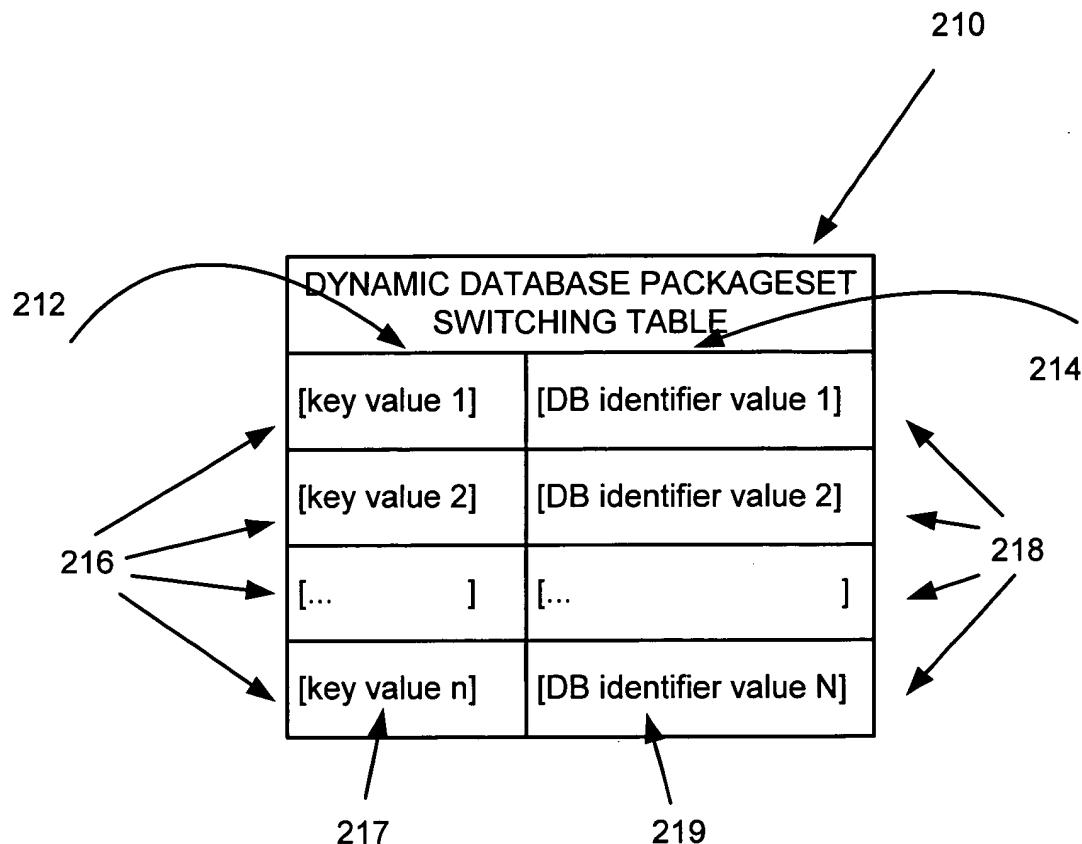
25
10

Figure E- 15

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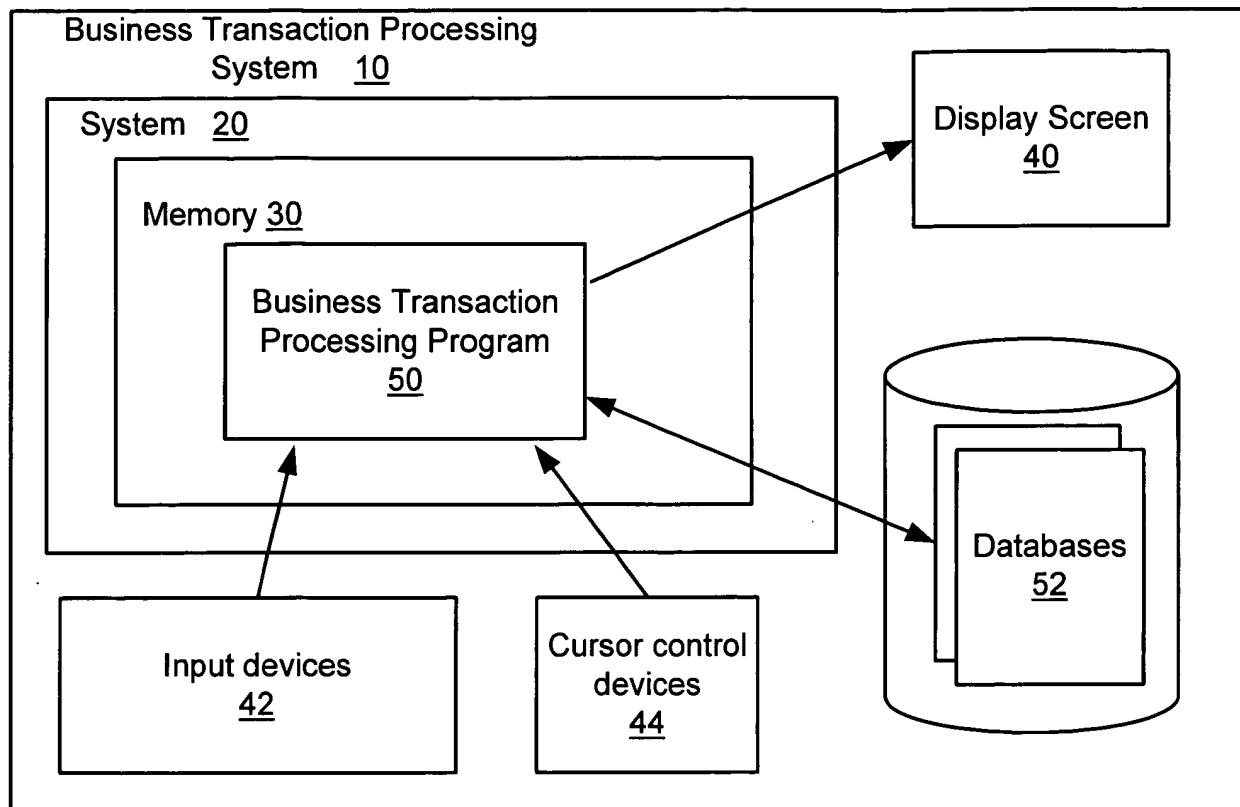


FIG. F-1a

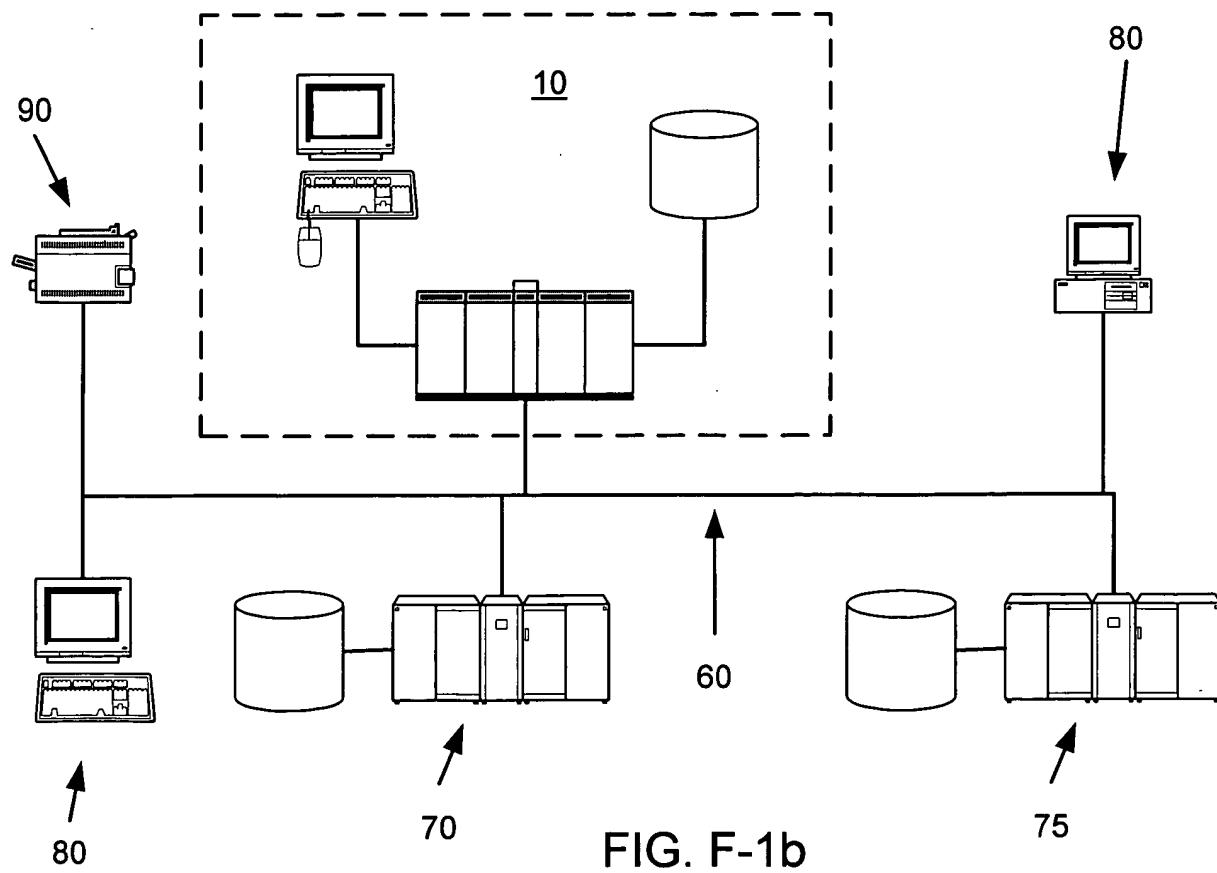


FIG. F-1b

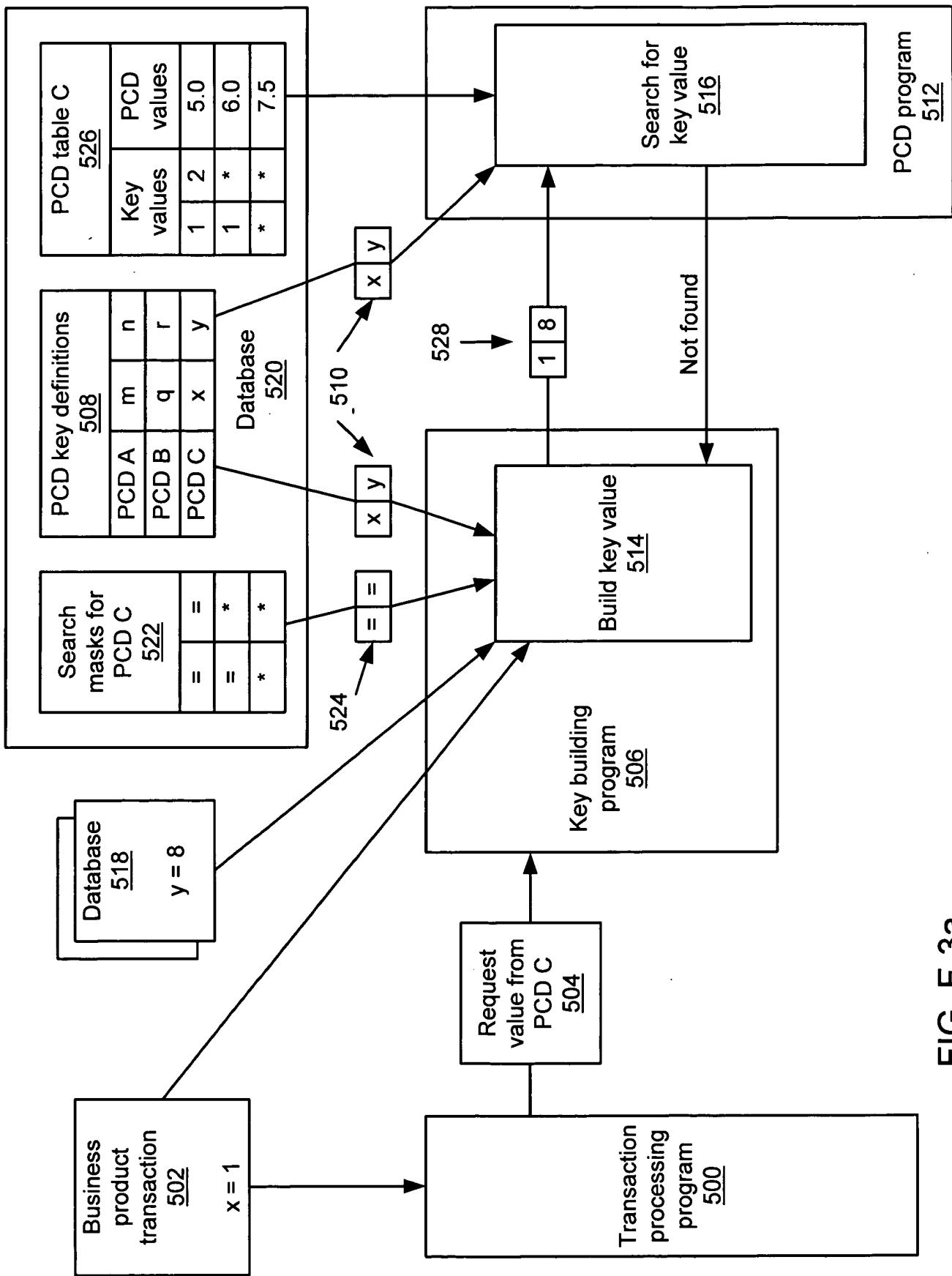
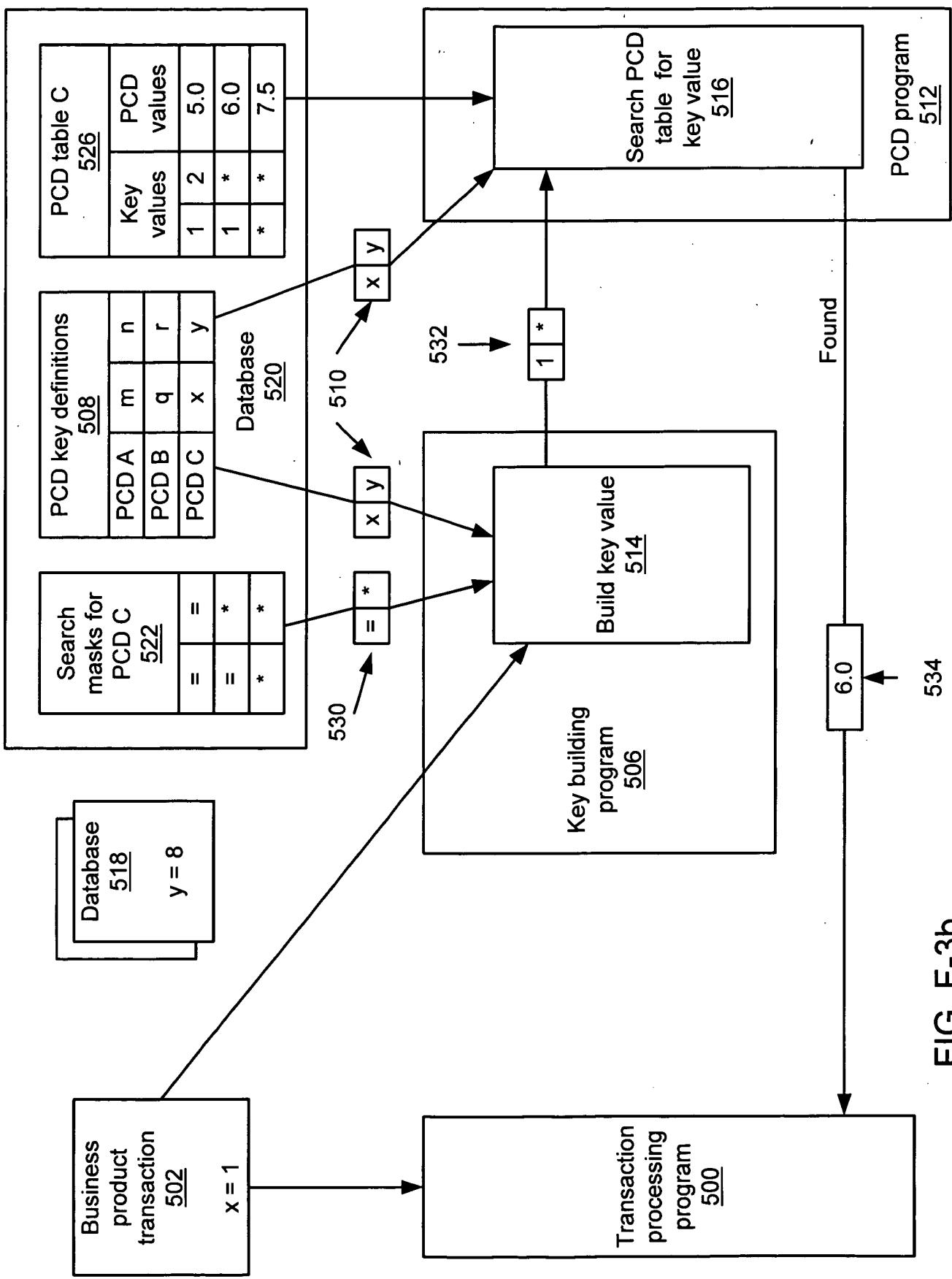


FIG. F-3a



781
b99

FIG. F-3b

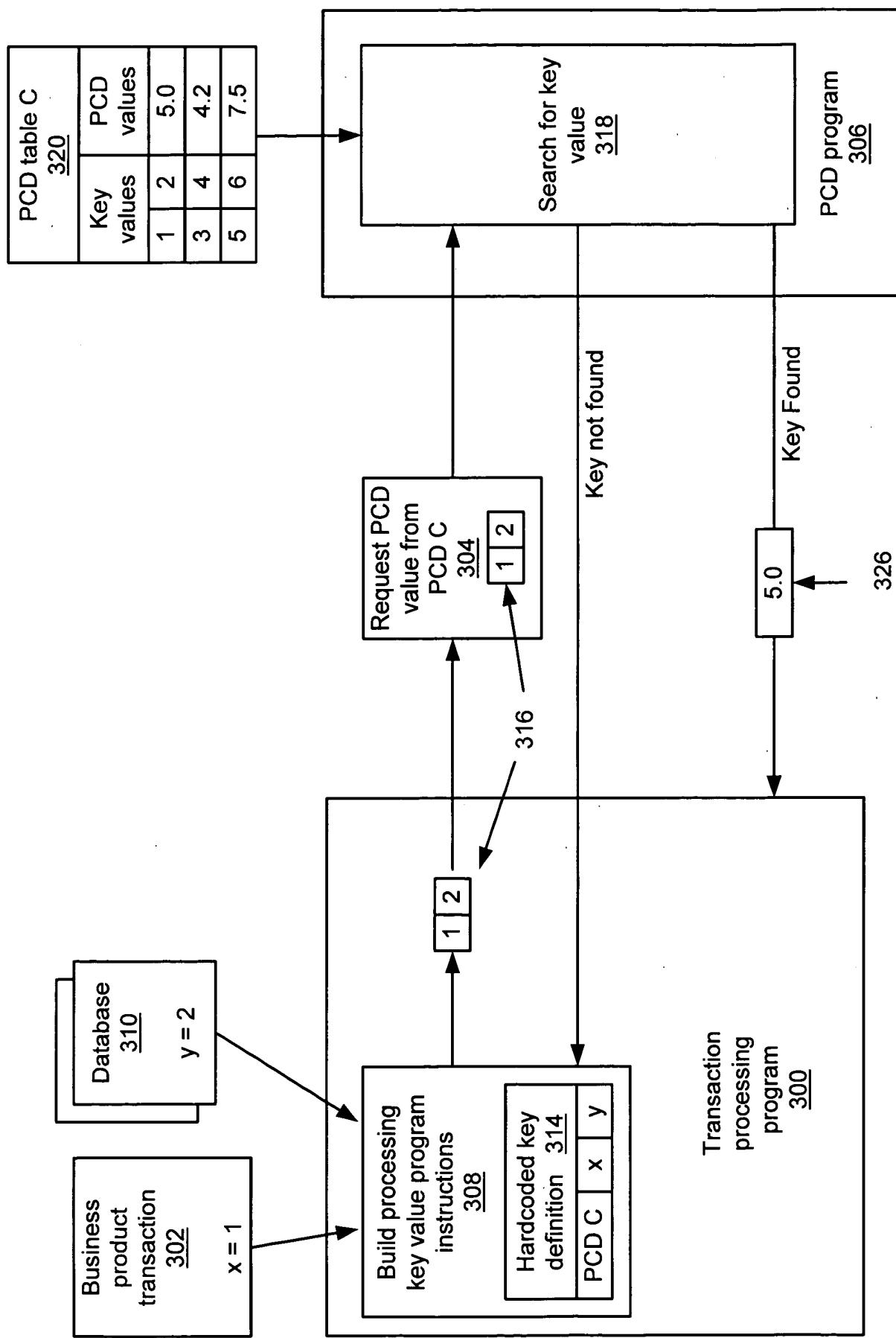


FIG. F-2 - Prior Art

<u>KEY ELEMENT</u>	<u>KEY ELEMENT SEQUENCE</u>	<u>ELEMENT NAME</u>	<u>FIELD LENGTH</u>	<u>DATA TYPE</u>	<u>150</u>
X	1	COMPANY ID	2	NUMERIC	
W	2	CREDIT CARD TYPE	3	CHARACTER	
Z	3	ON US/NOT ON US	1	CHARACTER	

FIG. F-
4

<u>ROW</u>	<u>KEY VALUES</u>			<u>PCD VALUES</u>	<u>170</u>
	<u>X</u>	<u>W</u>	<u>Z</u>	<u>TRANSACTION CHARGE</u>	
1	12	VIS	Y	10	
2	12	DIS	Y	8	
3	12	*	*	12	
4	12	*	Y	13	
5	14	VIS	N	12	
6	14	DIS	N	11	
7	*	*	*	14	

175 176 177 179

FIG. F-
5

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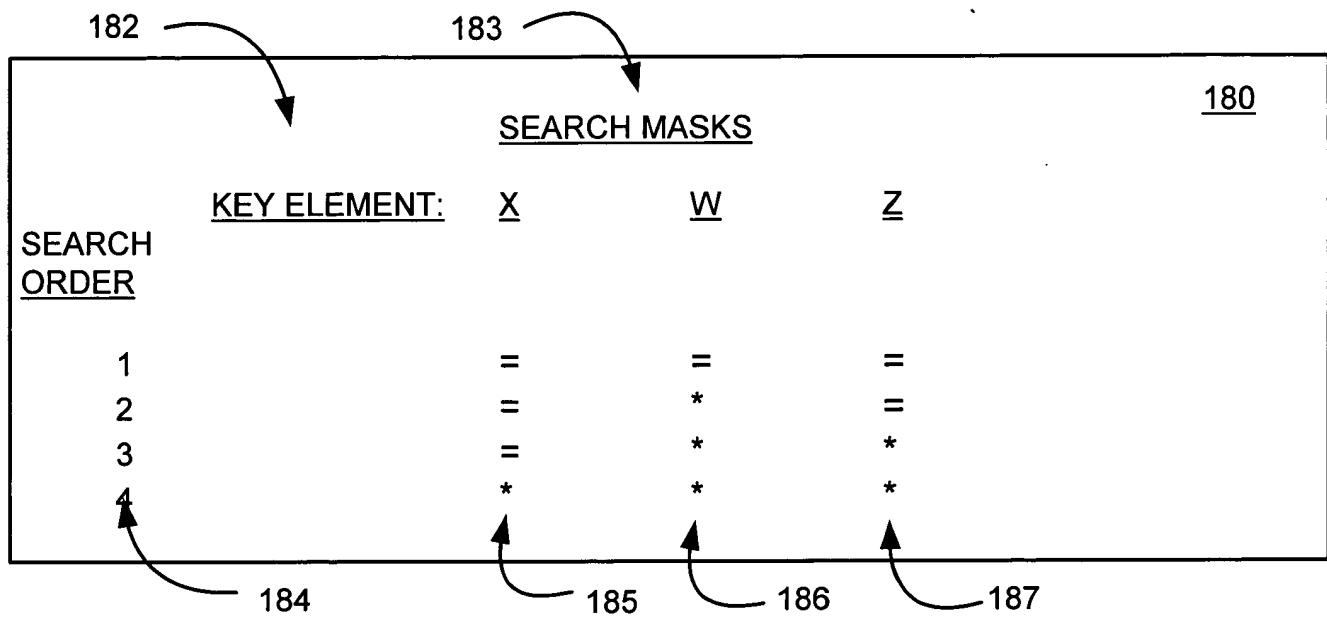


FIG. F-
6

FIG. F-7 illustrates a table structure. The table has four rows. The first three rows contain two columns each: the left column is labeled "PCD 1", "PCD 2", and "PCD ..."; the right column is labeled "User-defined key definition 1", "User-defined key definition 2", and "...". The fourth row contains two columns: the left column is labeled "PCD n" and the right column is labeled "User-defined key definition n". Arrows labeled 200, 202, and 204 point to the top-left cell, the second column of the first row, and the second column of the fourth row respectively.

PCD 1	User-defined key definition 1
PCD 2	User-defined key definition 2
PCD
PCD n	User-defined key definition n

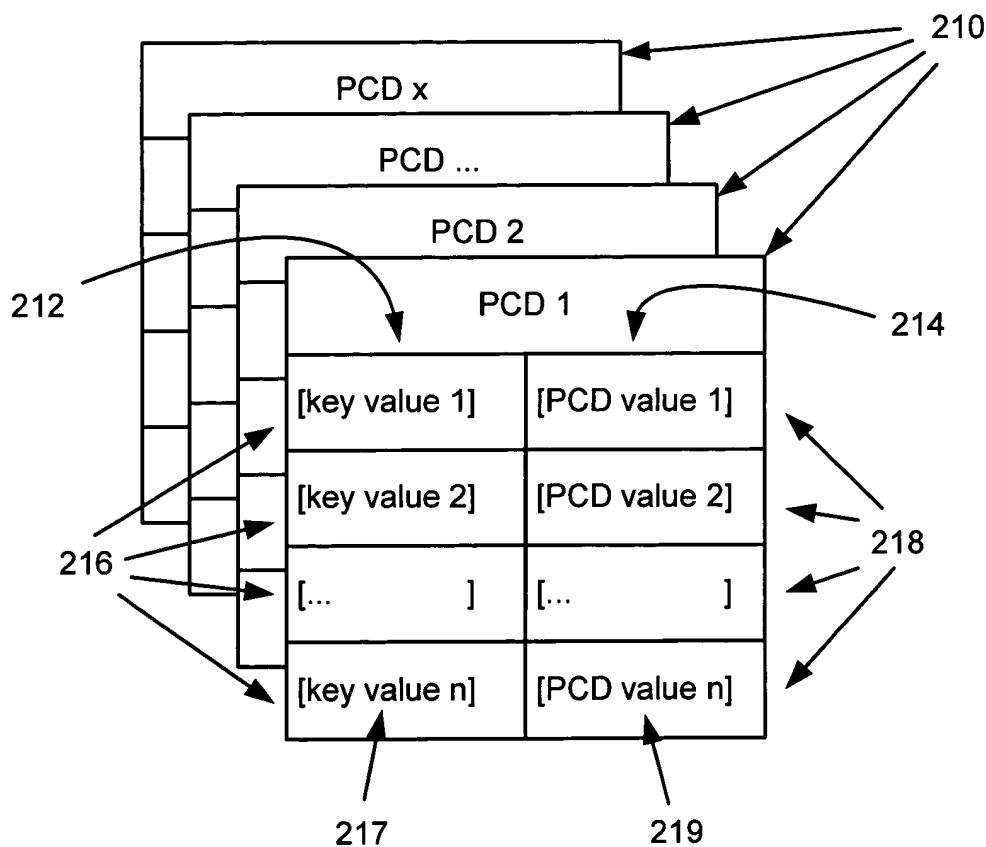
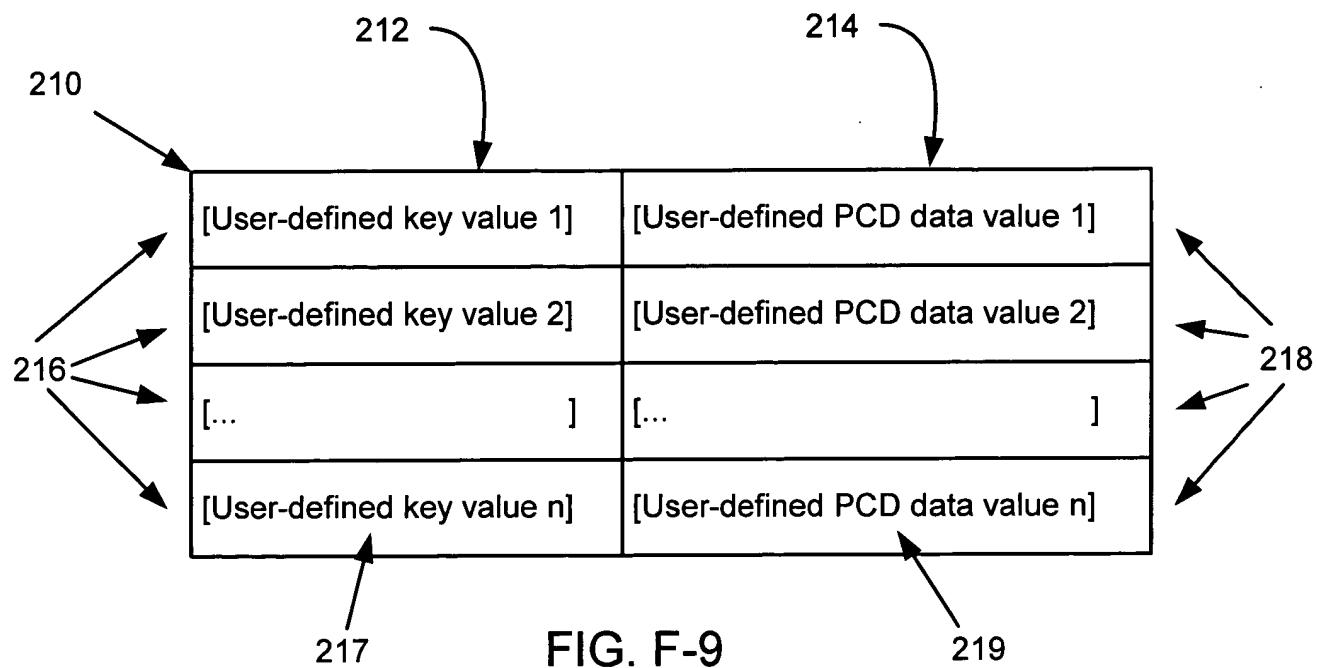
FIG. F-7

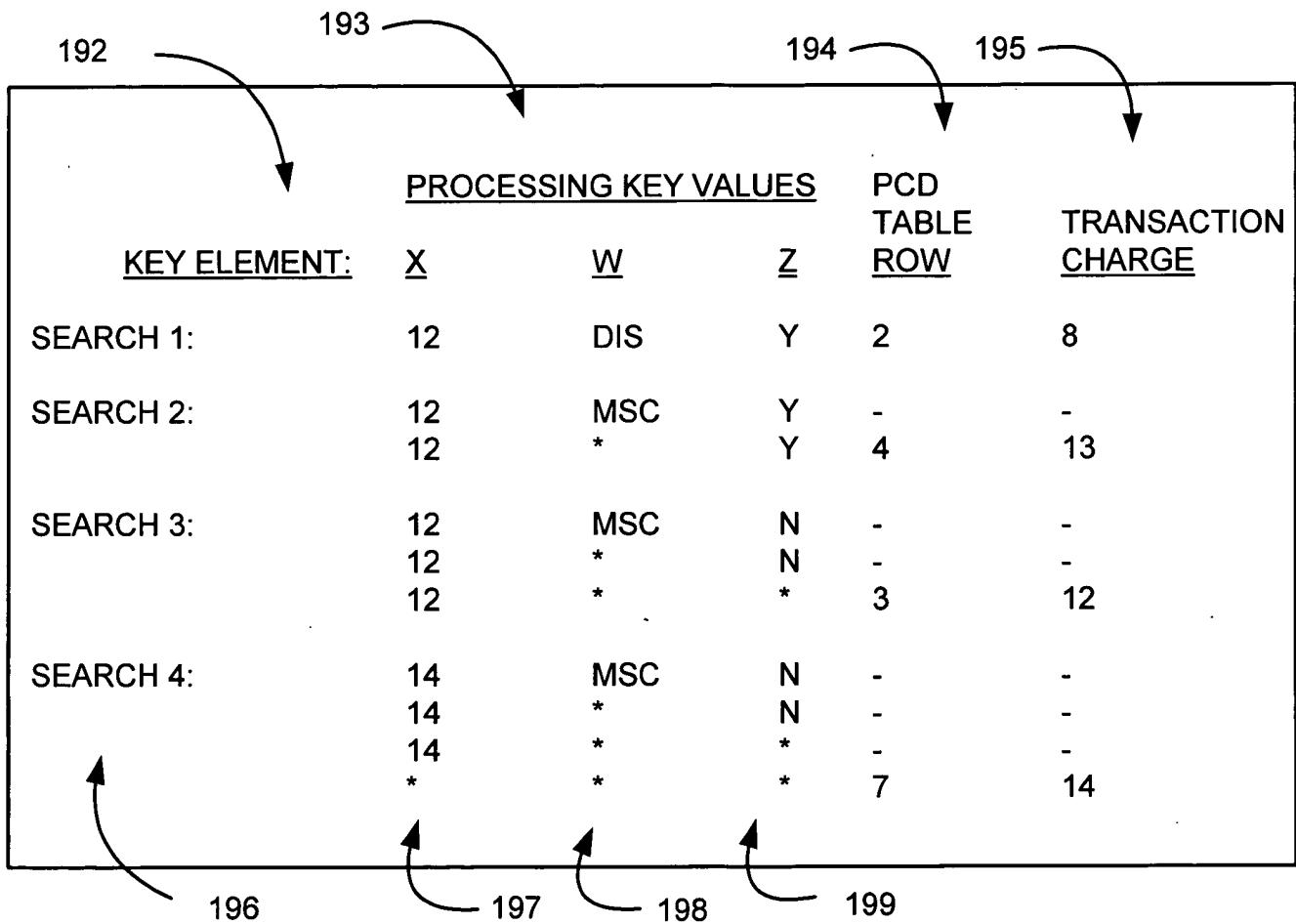
FIG. F-8 illustrates a table structure. The table has four rows. The first three rows contain two columns each: the left column is labeled "PCD 1", "PCD 2", and "PCD ..."; the right column is labeled "Search mask table 1", "Search mask table 2", and "...". The fourth row contains two columns: the left column is labeled "PCD n" and the right column is labeled "Search mask table n". Arrows labeled 205, 206, and 208 point to the top-left cell, the second column of the first row, and the second column of the fourth row respectively.

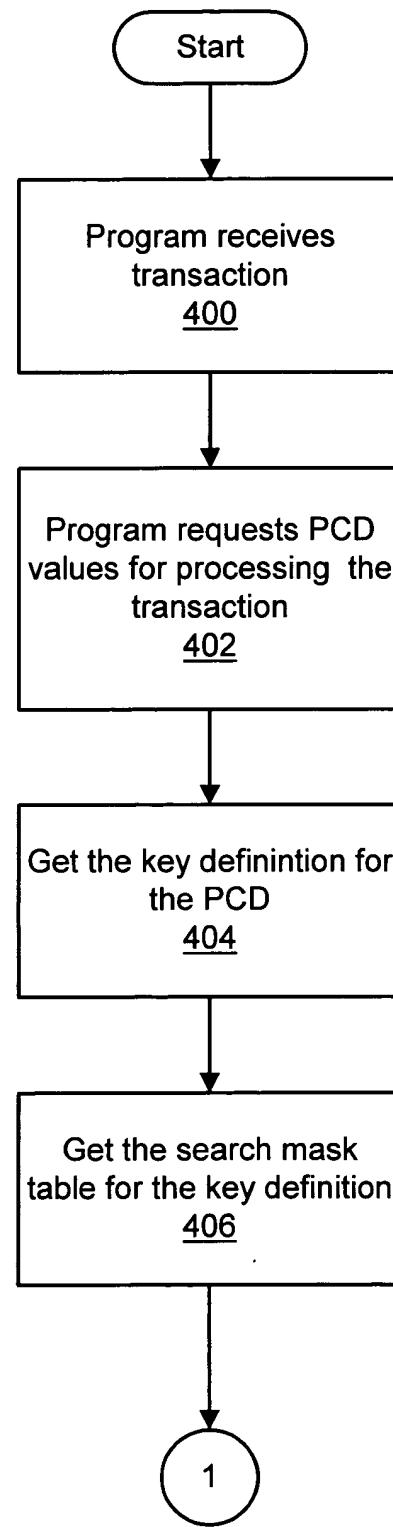
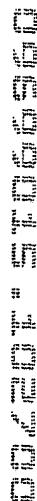
PCD 1	Search mask table 1
PCD 2	Search mask table 2
PCD
PCD n	Search mask table n

FIG. F-8

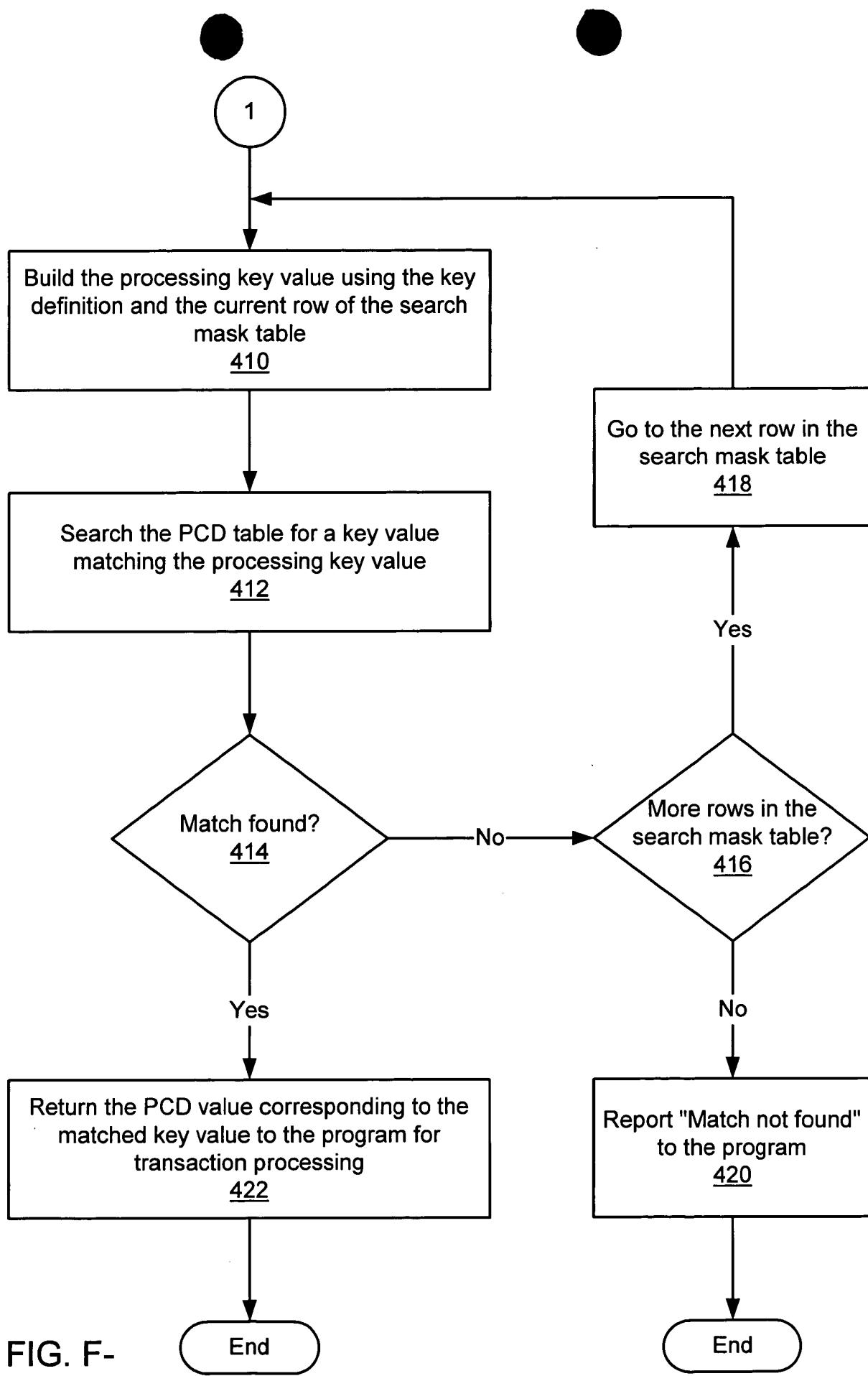
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**FIG. F-10**

89
197FIG. F-
11



**FIG. F-
12a**

FIG. F-
12b

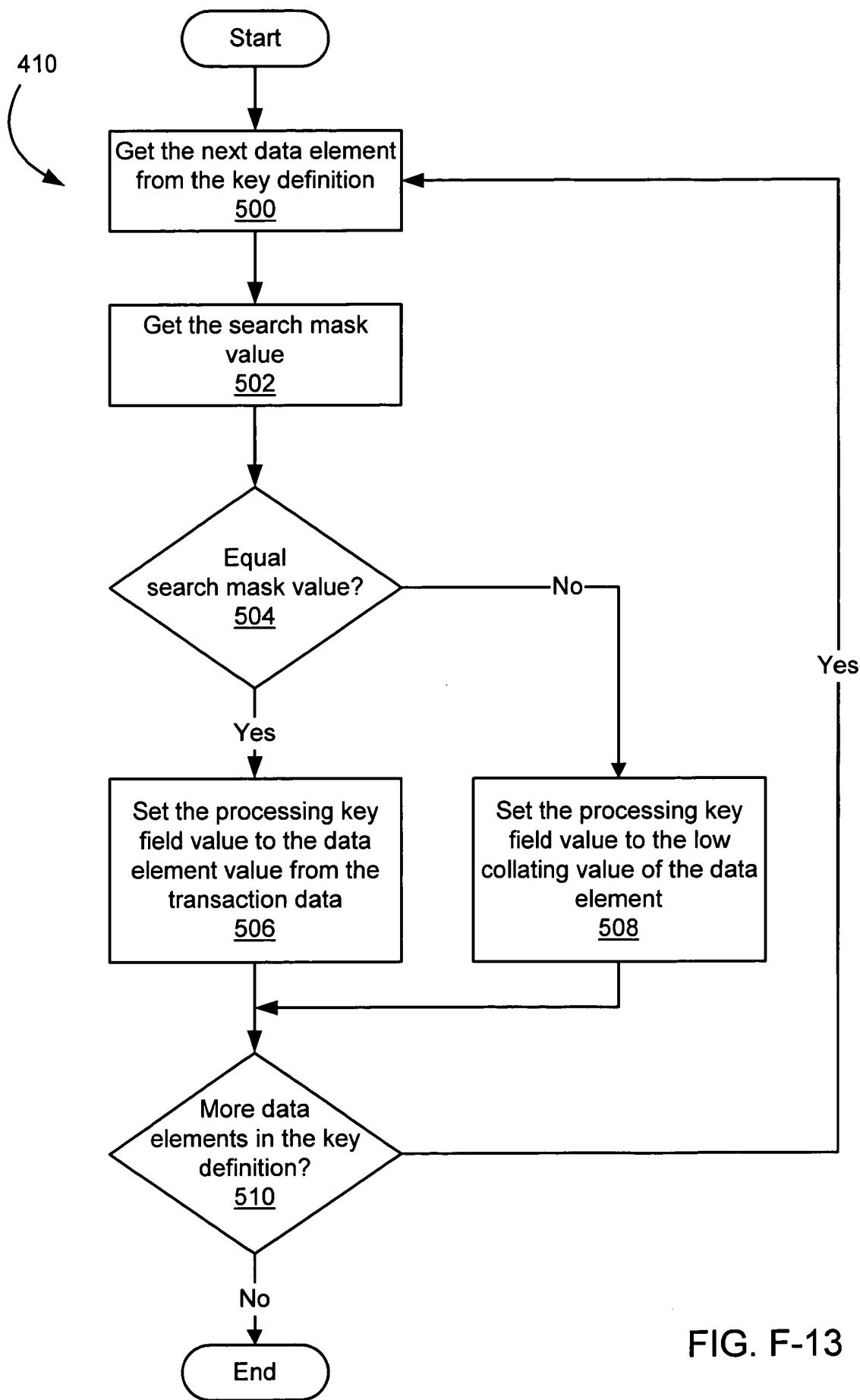


FIG. F-13

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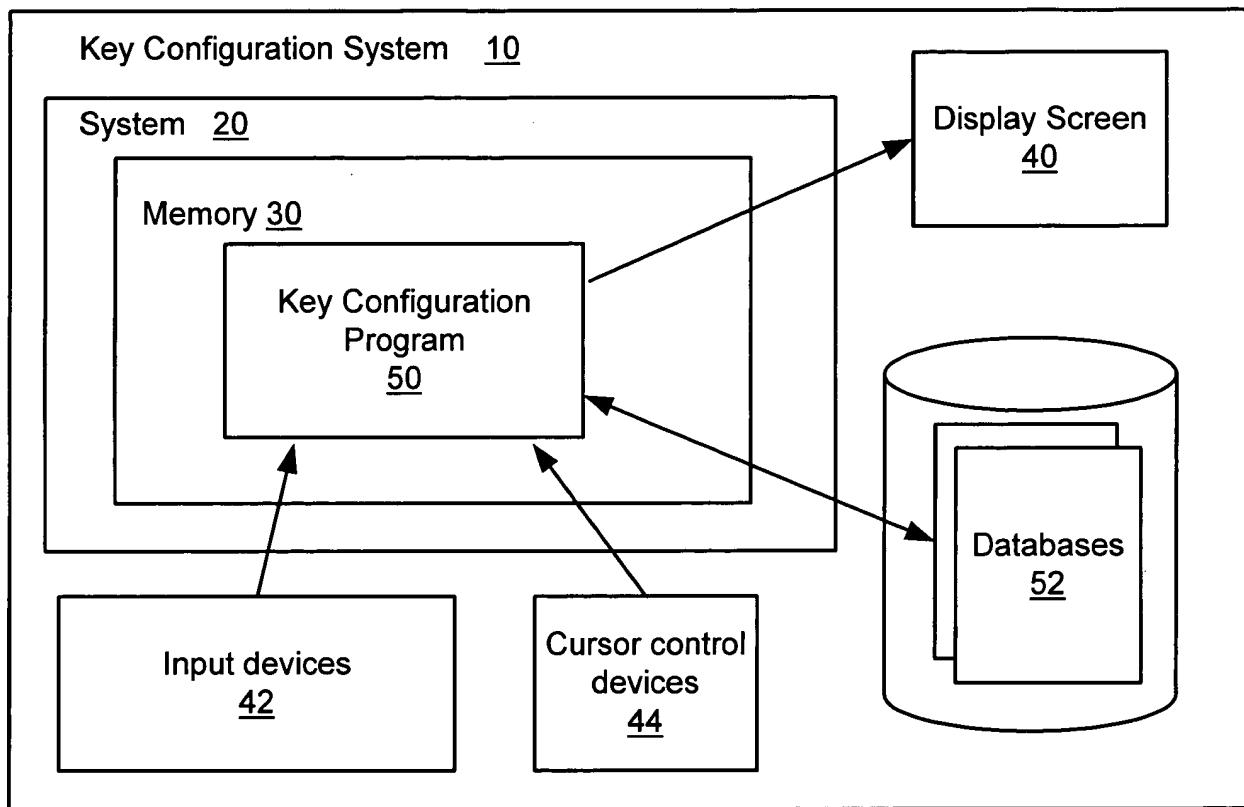


FIG. G-1

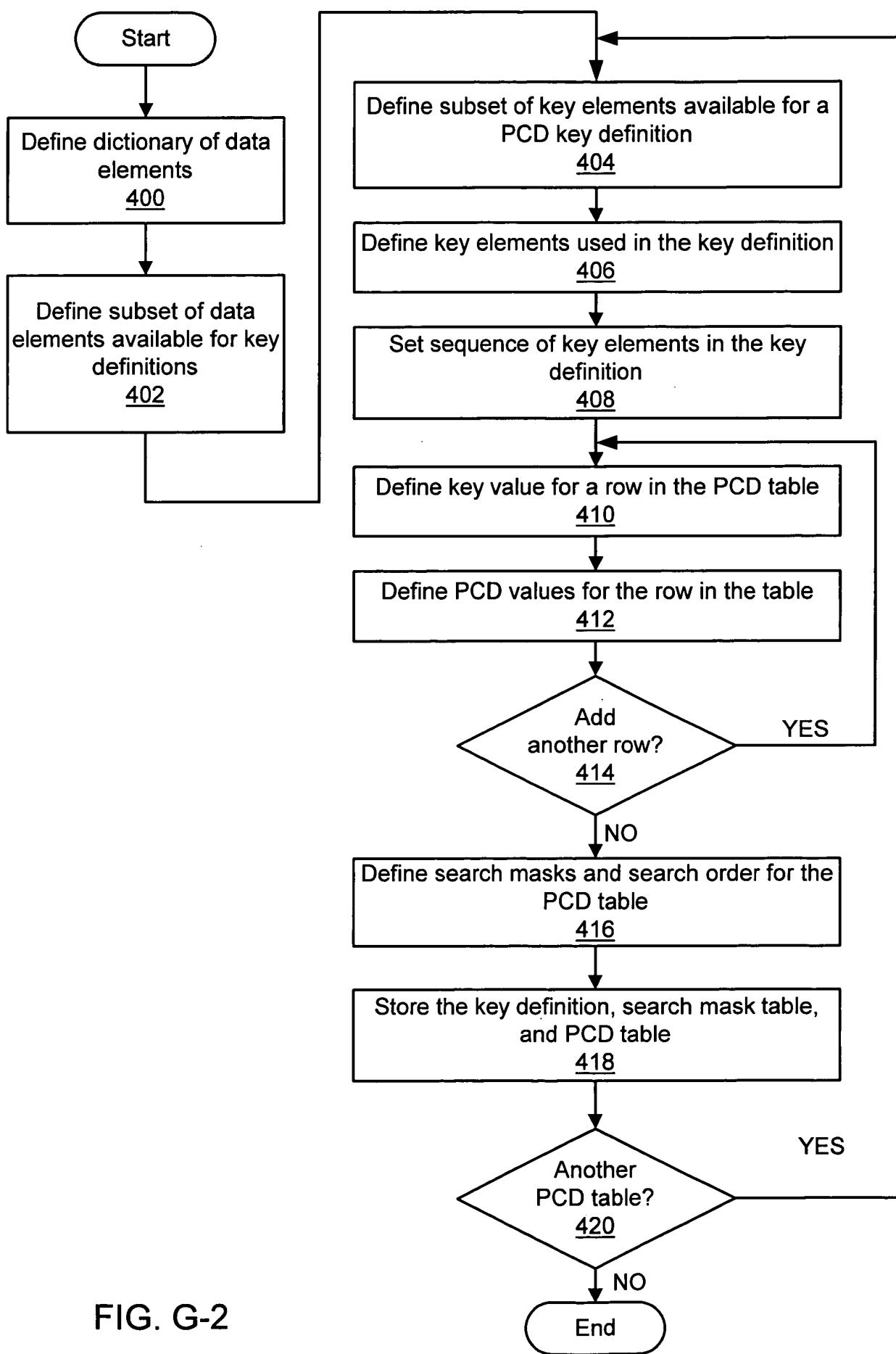


FIG. G-2

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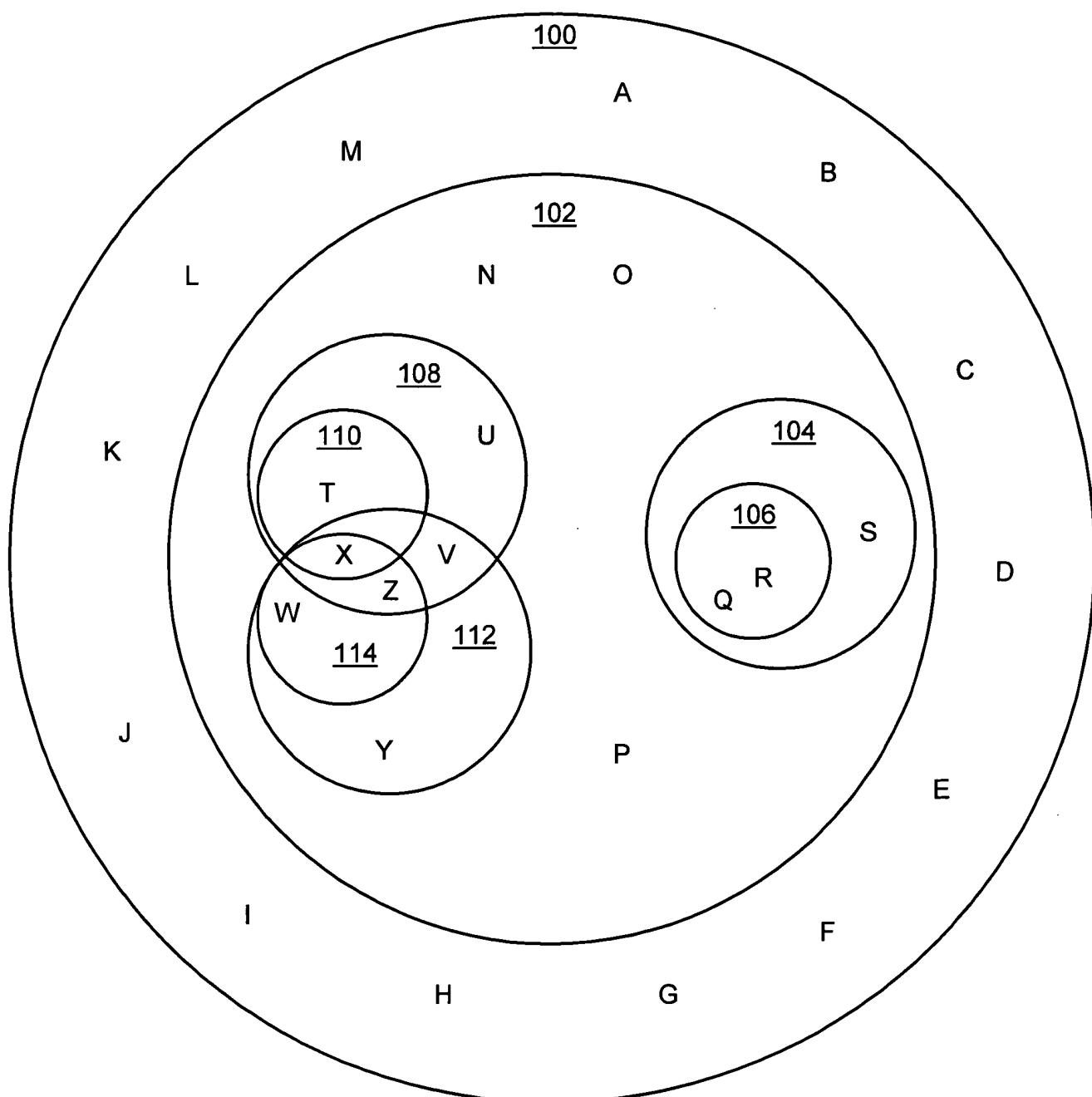


FIG. G-
3

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<u>122</u>	<u>124</u>	<u>120</u>
<u>DICTIONARY DATA ELEMENTS</u>	<u>USEABLE IN KEYS?</u>	
A	NO	
B	NO	
C	NO	
D	NO	
E	NO	
F	NO	
G	NO	
H	NO	
I	NO	
J	NO	
K	NO	
L	NO	
M	NO	
N	YES	
O	YES	
P	YES	
Q	YES	
R	YES	
S	YES	
T	YES	
U	YES	
V	YES	
W	YES	
X	YES	
Y	YES	
Z	YES	

FIG. G-
4

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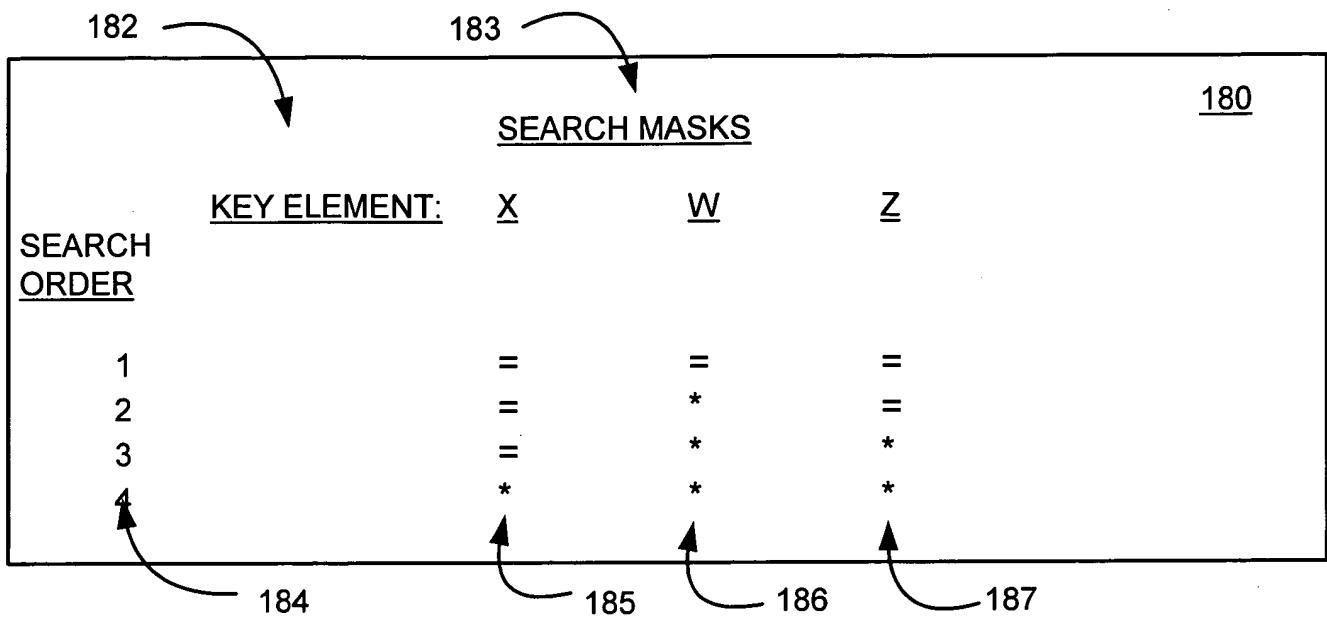


FIG. G-
9

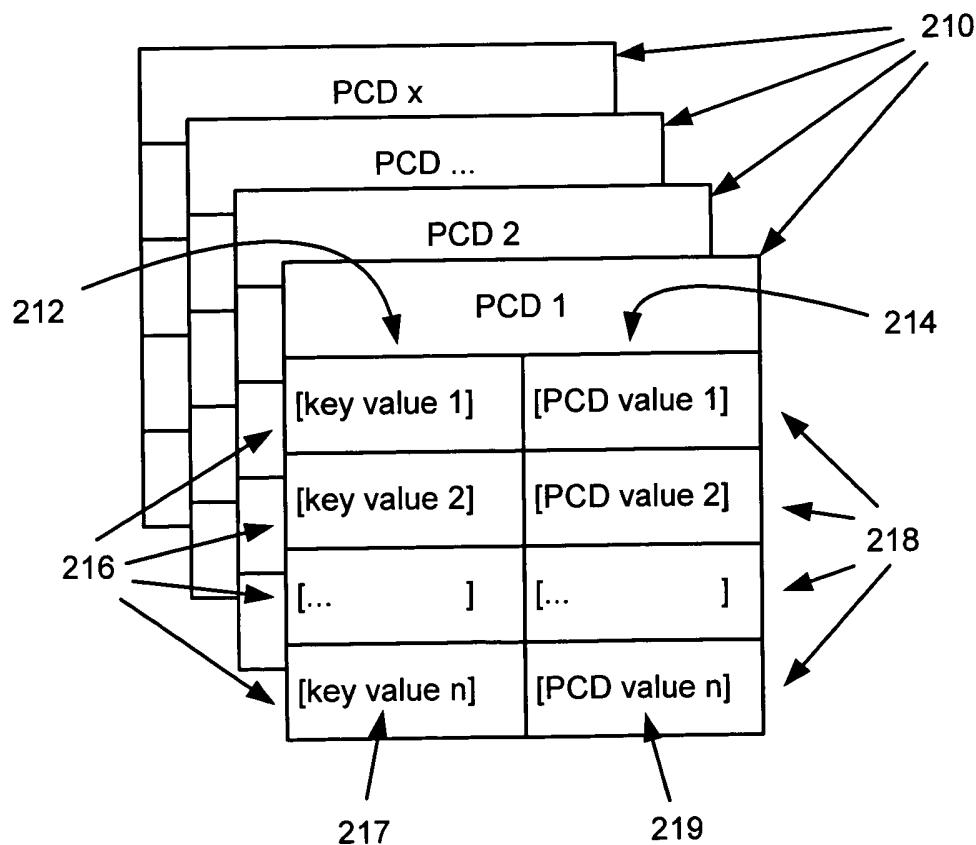
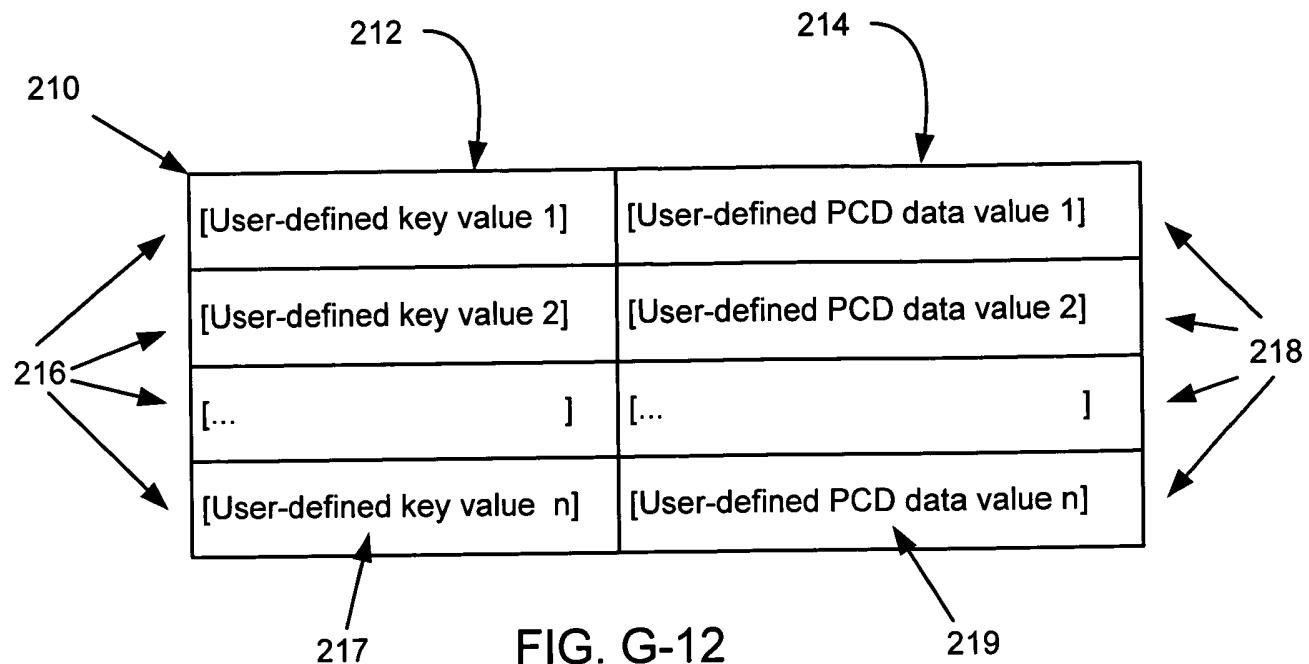
PCD 1	User-defined key definition 1
PCD 2	User-defined key definition 2
PCD
PCD n	User-defined key definition n

FIG. G-10

PCD 1	Search mask table 1
PCD 2	Search mask table 2
PCD
PCD n	Search mask table n

FIG. G-11

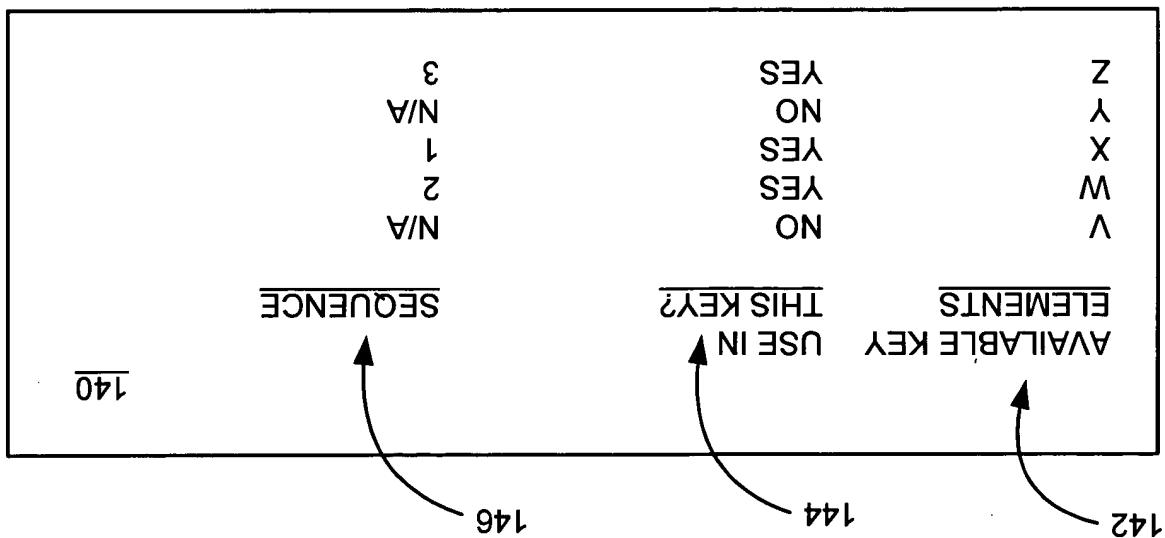
9/17/07



95
k7

FIG. G-

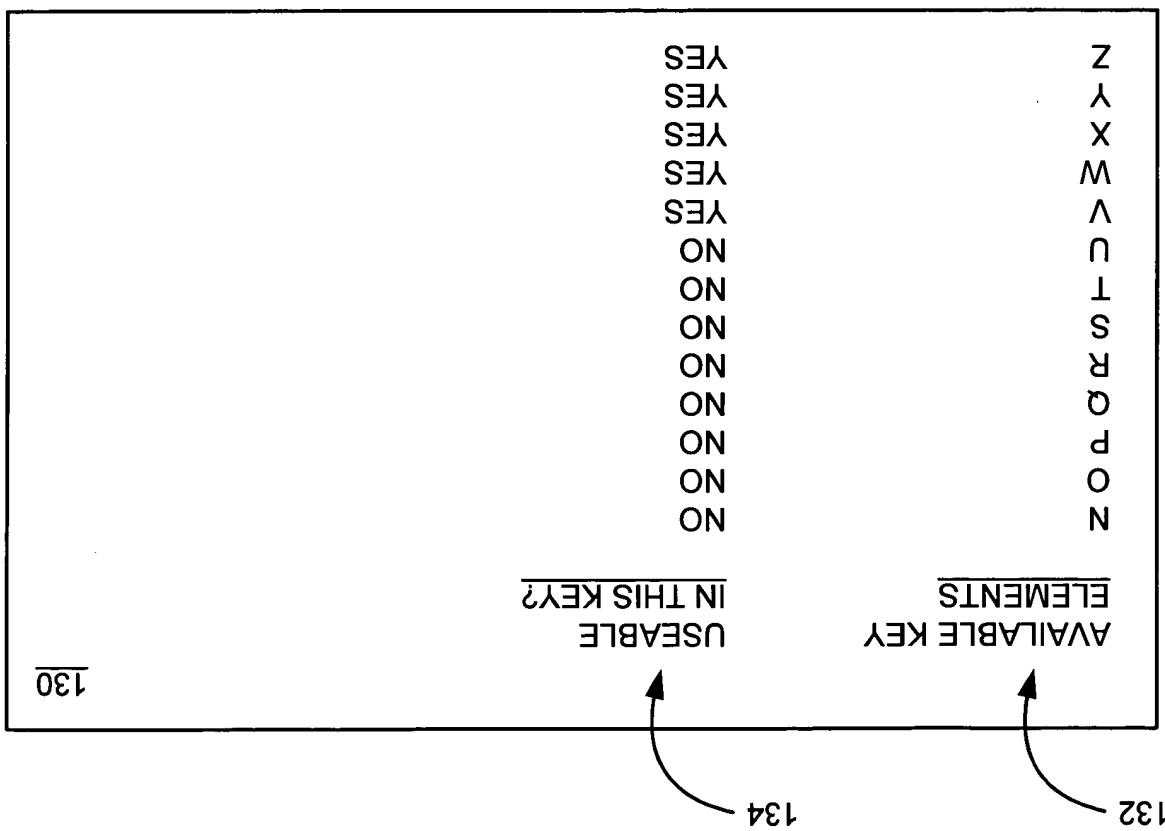
9



ପ୍ରକାଶକ ପତ୍ର ମହିନେ ପରିଚୟ

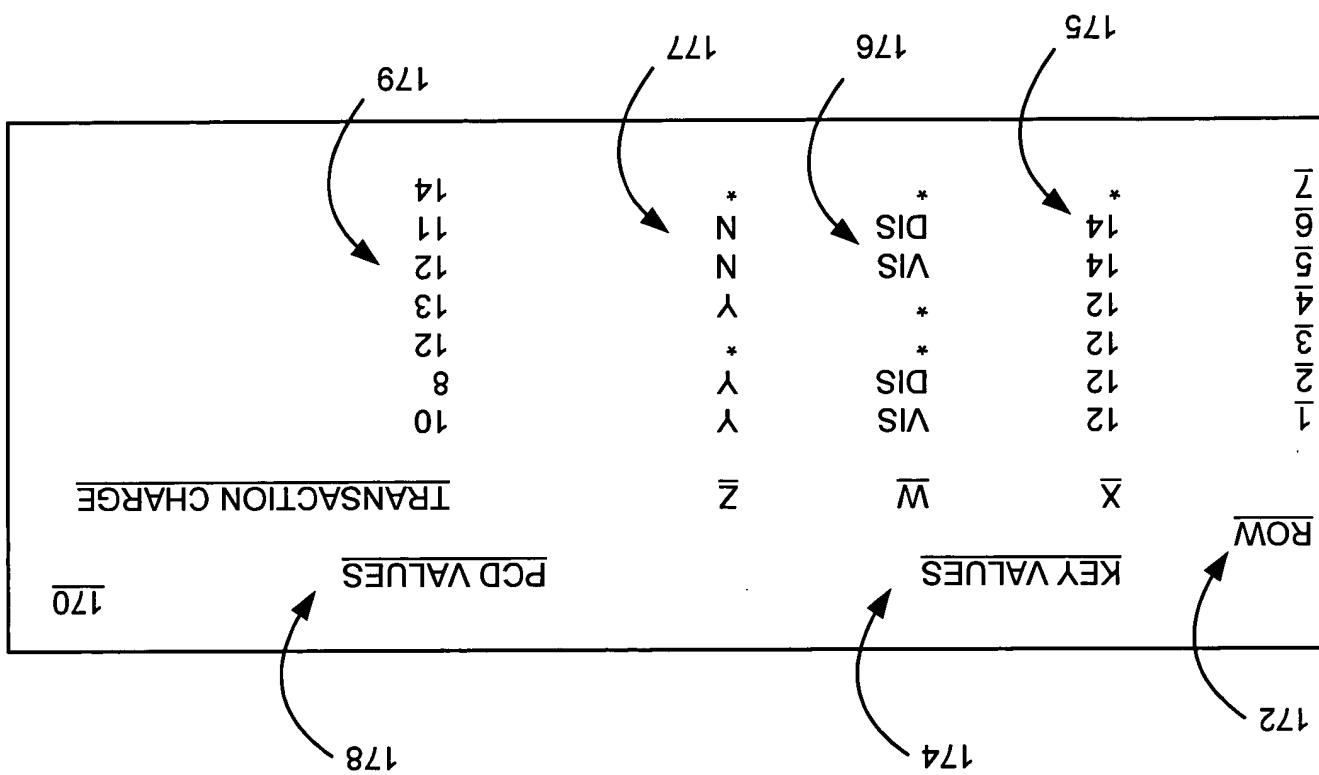
FIG. G-

8



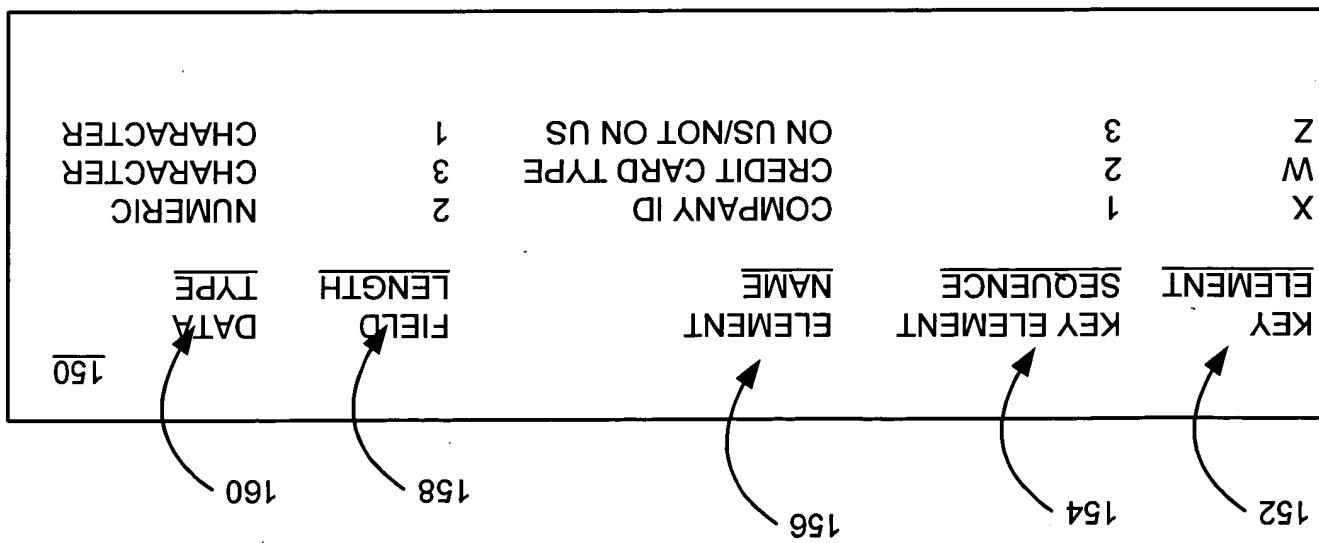
941
195

8



ପ୍ରକାଶକ ପତ୍ର ମହିନେ

7



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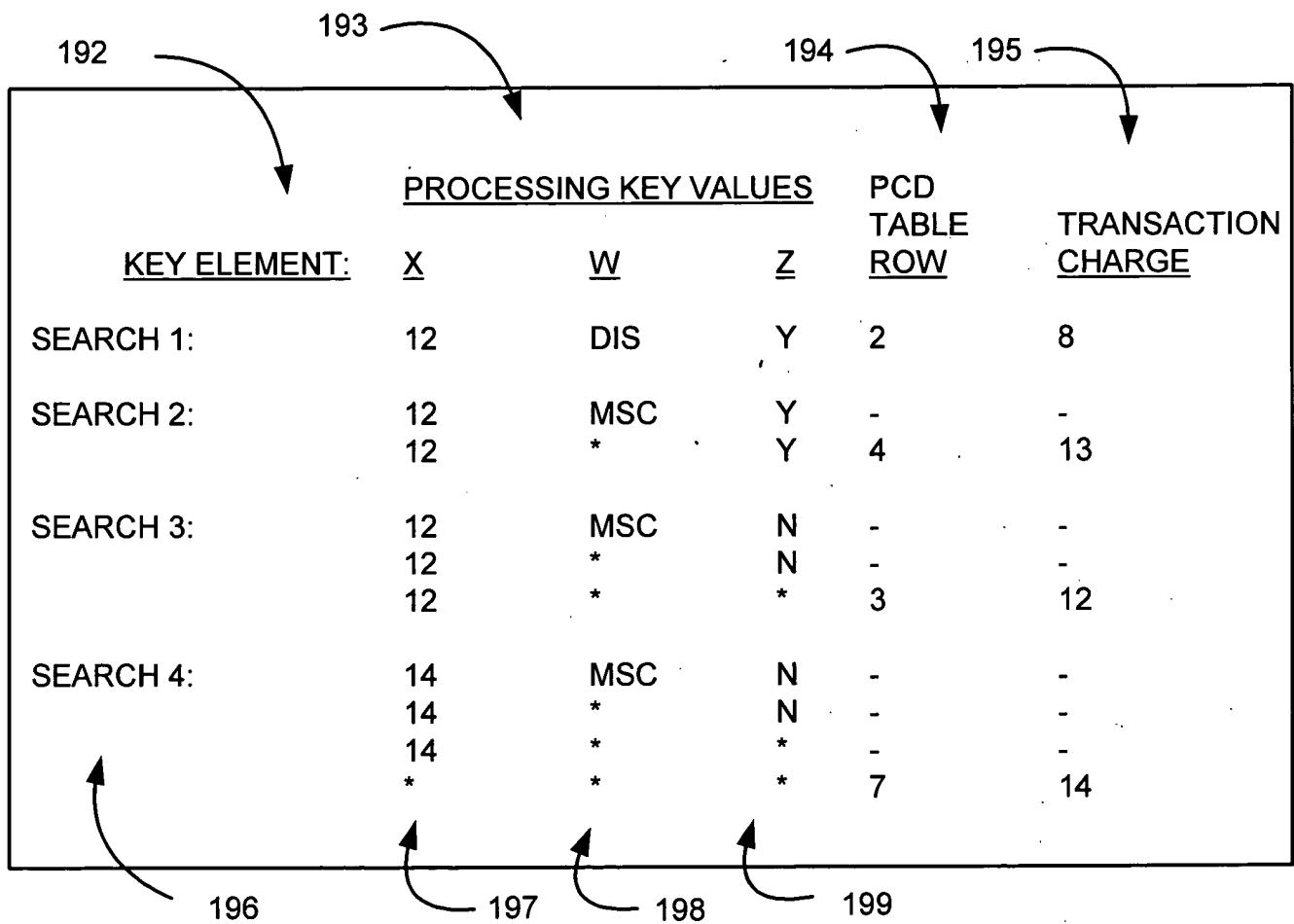


FIG. G-
14